Product Specs

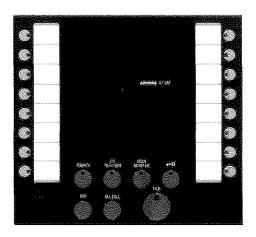
Pomeroy offers the following manufacturer product specifications materials immediately following this page.



AX-8M

Audio Master Station for AX Series

AX-8M



DESCRIPTION:

The AX-8M is an Audio only master station and can be one of the up to 8 masters supported in the AX Integrated Audio & Video Security system.

Each AX-8M master station can initiate and answer calls from up to 7 additional master stations and up to 8 door or sub stations. The master can be expanded with AX-16SW add-on selectors for a maximum capacity of 120 door / sub stations. Its streamline design is mountable on a wall or desk.

When a door or sub station calls, a tremolo tone rings. To answer the call, simply press the TALK button once and speak hands-free, or Press and Hold the TALK button to use as push-to-talk. release-to-listen. If access control is included. simply press the "key" button and the associated electric strike or magnetic lock will be activated. The AX-8M can answer the call from any audio only or audio/video door/sub on the system.

Each master station connects via CAT-5e cable homerun to the AX Central Exchange Unit. Feature and operation variables are set with the system setup software and uploaded to the CEU.

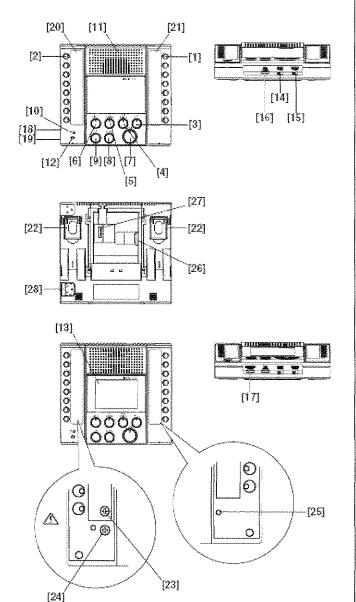
FEATURES:

- 8 master station channels
- 8 door / sub station channels
- LED and call tone annunciation for programmable length or infinite call-in
- Hands-free VOX communication or Push-to-Talk
- All Call to other master stations
- Selective calling to any station in the system
- Add-on selectors in increments of 16 channels for max. capacity of 120 door / sub stations (CEU capacity also reg'd)
- Privacy prevents other masters from listening in
- CO Transfer allows calls to transfer to a telephone number (Viking K-1900-5 required)
- Scan Monitor allows listening to door / sub stations in programmed time increments
- Door release button activates door strike or magnetic lock (selectable N/O or N/C contacts from CEU)
- 3.5mm speaker & mic jacks for computer-style headset or handset connection
- Tone and volume adjustments for open voice and headset communication
- Option connector for call extension or footswitch operation of TALK function

AX-8M

Audio Master Station for AX Series

FEATURE CALL-OUTS:



FEATURE CALL-OUT DEFINITIONS:

- [1] Door station selector button w/LED
- [2] Master station selector button w/LED
- [3] Door release button
- [4] Scan monitor button w/LED
- [5] CO transfer button w/LED
- [6] Privacy button w/LED
- [7] TALK button w/LED
- [8] ALL CALL button
- [9] OFF button (standby)
- [10] Occupied LED
- [11] Speaker
- [12] Microphone
- [14] Receive volume control switch (low, med, high)
- [15] Transmit volume control switch (low, med, high)
- [16] Tone volume control
- [18] Headset receiver jack
- [19] Headset microphone jack
- [20] Master station directory card / card cover
- [21] Door station directory card / card cover
- [22] Desktop stand
- [23] Headset receiver volume control
- [24] Headset microphone volume control
- [25] Reset switch
- [26] RJ45 jack for wiring to CEU
- [27] Optional connector input
- [28] Connector for AX-16SW add-on selector

SPECIFICATIONS:

Power Source: 24V DC Supplied from CEU

Call Tone: Tremolo ring tone & blinking LED Communication:

Open voice hands-free (VOX or Push-to-Talk)

3.5mm mic and speaker jacks Headset Jack: Up to 7 additional master stations Calling Capacity:

Up to 120 door / sub stations Desk with flip-up stands, or wall

Mounting: mount with provided metal bracket

Wall mount box: 2-gang electrical box or ring CAT-5e homerun to CEU

Wirina: Wiring Connection: RJ45 jack Housing: **ABS Resin**

Color: Black

 $32 - 104^{\circ} F (0 \sim 40^{\circ} C)$ Operating Temp:

Dimensions (HxWxD):

6-7/8" x 7-5/8" x 1-7/8"

(175 x 194 x 48 mm)

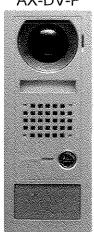
Weight: 1.0 lbs (450g)



AX-DV-P, AX-DVF-P

Video Door Stations for AX Series

AX-DV-P





DESCRIPTION:

The AX-DV-P is a surface mount color video door station for the AX Series. The AX-DVF-P is a flush mount color video door station. Both units have a built in HID® ProxPoint® Plus card reader (6005B). The reader connects to an access control system while the camera connects directly to the AX Central Exchange Unit using CAT-5e wire with an RJ45 jack.

The AX-DV-P has an aluminum diecast cover and the AX-DVF-P has a stainless steel faceplate. Both units include a camera, microphone, speaker, call button, and HID® reader. Tamper resistant screws are provided for mounting.

When the call button on the door station is pushed, the master station(s) ring and the video monitor comes on with the image from the door station's camera. The master station user then pushes the "TALK" button to initiate communication. The person at the door station speaks hands-free. If the visitor has valid credentials, he/she swipes his/her card and the access system controls the door.

The AX door stations can be located up to 980' from the AX CEU and wired with CAT-5e cable. Additional equipment is available to interface with third party hardware for transmission over fiber optic cable or an IP network.

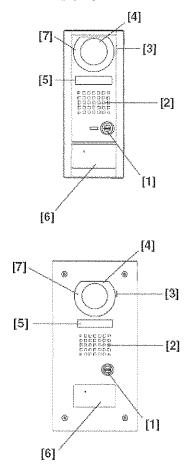
FEATURES:

- Color video camera with audio intercom and embedded card reader
- HID® ProxPoint® Plus reader (6005B) Requires separate wiring and host controller
- 2-way hands-free voice communication with AX master station
- Call button to initiate call to master(s)
- White LED for low light conditions
- RJ45 jack for easy CAT-5e connection
- Surface (AX-DV-P) or flush mount (AX-DVF-P) styles available
- 980' wiring distance from CEU on CAT-5e cable

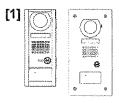
AX-DV-P, AX-DVF-P

Video Door Stations for AX Series

FEATURE CALL-OUTS:

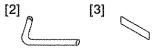


PACKAGE CONTENTS:

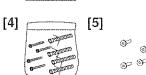


[1] Vandal resistant door station (AX-DV-P, AX-DVF-P)

[2] Special screwdriver



[3] Directory card



[4] Mounting screws and Anchor bolts (AX-DV-P)

[5] Mounting screws (AX-DVF-P)*



[6] Back box (AX-DVF-P)*

* [5] and [6] are packed with AX-DVF-P only

FEATURE CALL-OUT DEFINITIONS:

[1] Call Button

[2] Speaker

[3] Microphone

[4] Camera

[5] Directory Card

[6] Proximity card reader (HID® 6005B)

[7] White LED

SPECIFICATIONS:

Power Source: 24V DC Supplied from CEU

Wiring Connection: RJ45 jack (CAT-5e)

Communication: Hands-free communication

(auto-voice actuated or PTT) controlled by master station

Camera: 1/4" color CCD camera

Pixels: 250,000 Pixels

Minimum 5 Lux

illumination:

Card Reader: HID® ProxPoint® Plus (6005B)

Operating Temp: $14 - 140^{\circ} \text{ F } (-10 \sim 60^{\circ} \text{ C})$

Mounting:

AX-DV-P Surface wall mount

AX-DVF-P Flush mount (with provided box)

Housing:

AX-DV-P Front Panel: Aluminum die casting

Main Unit: Resins

AX-DVF-P Front Panel: Stainless steel

Main Unit: Resins Back box: Steel plate

Color:

AX-DV-P Solid silver (metallic gray)
AX-DVF-P Stainless steel, brush-finished

Dimensions: AX-DV-P: 9-5/8" x 3-15/16" x 1"

(245x100x25 mm)

(HxWxD) AX-DVF-P: 11-5/8" x 5-3/4" x 1-7/8"

(295x146x45 mm)

Weight: AX-DV-P: 0.99 lbs (450g) (approx.) AX-DVF-P: 1.67lbs (760g)

Aiphone Corporation

* Fax: (425) 455-0071 tech@aiphone.com



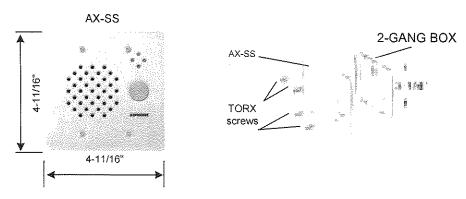
AX-SS Sub Station for AX

2 Gang Stainless Steel, Vandal Resistant Sub with Amplification

- INSTRUCTIONS -

The AX-SS is an exterior rated sub station designed for use with the AX system. It is designed to be flush mounted into a 2-gang electrical box or can be surface mounted using the SBX-2G. It requires CAT-5e wiring homerun to the CEU, or 4 conductor wire spliced onto a CAT-5 cable at the CEU. 24V DC power is required at the station for power.

MOUNTING & INSTALLATION:



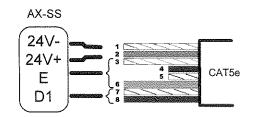
OPERATION:

- Door stations calling Master(s): Press call button on door station. Tone and LED light will be
 activated at the master station(s). Communication at master is Push-to-talk or VOX hands free.
 Communication at door station is always hands free reply. Press OFF at master to conclude.
- Master calling Door Station: Press selector button on master assigned to the door station you
 wish to call. Press TALK to initiate, then speak via either Push-to-talk or VOX hands free. Press
 OFF to conclude.

IMPORTANT NOTE:

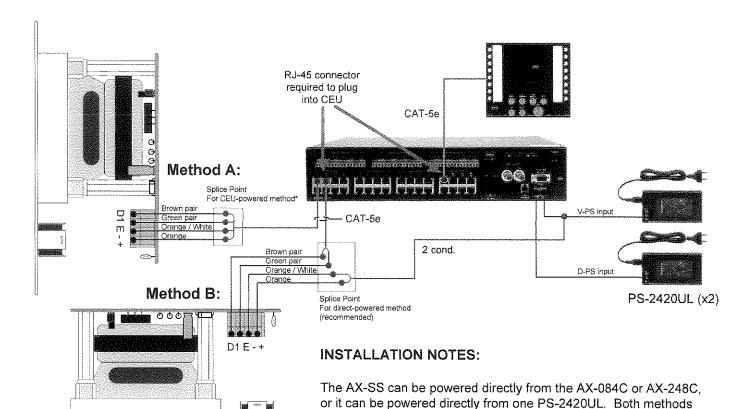
• If using AX-SS in a system including video master station(s) and if powering the station off of the CAT-5 cable plugged into the CEU: the video monitor will be powered on when communication is established with this station, but there will be no image present. We recommend that the station be powered directly from the PS-2420UL as shown in Method B on the following page.

WIRING DIAGRAM:



TIA/EIA 568B Standard: Connect 3/6 pair (green) to "E" Connect 7/8 pair (brown) to "D1" Connect 1 (orange/ white) to 24V-Connect 2 (orange) to 24V+

CONNECTION DIAGRAM:



Volume Control H = High M = Medium ≈ Low



is connected to "V-PS + and -" terminals (right side). The output volume can be adjusted (H,M,L) via the 3-position switch

When using direct-powered method (B), utilize the PS-2420UL that

are shown. Method B is recommended.

located near the bottom edge of the unit. (Default is M) *When using the CEU-powered method (A), the door station port must be programmed in the software set-up as a video door station. This will also make the monitor in the AX-8MV turn on when

speaking with this station, and will display a blank or snowy screen.

In an audio-only system with the AX-8M master, this will not be a concern.

SPECIFICATIONS:

Power source: Power provided by AX CEU (AX-084C, AX-248C) or PS-2420UL Speaker: Baffle protected, Water proof and puncture resistant, 2.4 oz. magnet

Microphone: Baffle protected

Call Button: SPST call button. Call tone is activated at master when call button is pressed

Faceplate: 12 Gauge Stainless Steel

Mounting: Flush mount into a 2-gang box. Surface mount into SBX-2G, sold separately.

Tamper proof screws included (6x32 for use with flush gang box) with T-10 TORX bit.

Use hardware included with SBX-2G when installing sub into that unit.

Terminations: Unlabeled wire connector. See terminal definitions above

Flush Switch rating: 14°F to 158°F; Speaker rating: -67°F to 187°F Operating Temperature:

Wiring Distance: 980' using CAT-5e

Dimensions: 4-11/16" H x 4-11/16" W x 2" D

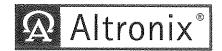
Aiphone Communication Systems

1700 130th Ave. N.E. Bellevue, WA 98005 (425) 455-0510 FAX (425) 455-0071

Toll Free Technical Support:

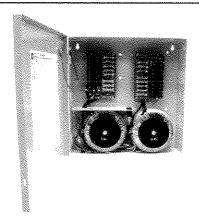
1-800-692-0200 E-mail tech@aiphone.com

Pg. 2 COP-AX-SS Instr. 0509PHJS



ALTV2416600UL, ALTV2416600ULCB UL Listed AC CCTV Power Supply

Rev. DSALTV2416600UL -B13F



Overview

 These Altronix AC Wall Mount CCTV Power Supplies provide 24VAC or 28VAC distributed via sixteen (16) fuse or Class 2 Rated PTC protected power limited outputs for powering CCTV Cameras, heaters and other video accessories.

ALTV2416600UL

- Sixteen (16) fuse protected outputs.
- Outputs are rated @ 3.5 amp.

ALTV2416600UL3

ALTV2416600UL w/3-wire Line Cord.

ALTV2416600ULCB

- Sixteen (16) Class 2 Rated PTC protected power limited outputs.
- Outputs are rated @ 2.5 amp.

ALTV2416600UCB3

ALTV2416600ULCB w/3-wire Line Cord.

Specifications

- Input 115VAC, 50/60Hz, 5.4 amp.
- 24VAC @ 25 amp (600VA) or 28VAC @ 20 amp (560VA) supply current.
- Main fuse rated @ 15 amp/32V.
- Illuminated power disconnect circuit breaker with manual reset.
- · Surge suppression.
- · AC power LEDs.
- Spare fuse(s) provided (all models w/primary and/or secondary fuses).
- · Unit maintains camera synchronization.
- Ease of installation saves time and eliminates costly labor.

- · Product weight:
- ALTV2416600UL: 22.8 lbs.
- ALTV2416600UL3: 23.1 lbs.
- ALTV2416600ULCB: 22.8 lbs.
- ALTV2416600UCB3: 23.1 lbs.
- · Shipping weight:
 - ALTV2416600UL: 23.7 lbs.
 - ALTV2416600UL3: 24.0 lbs.
 - ALTV2416600ULCB: 23.7 lbs.
 - ALTV2416600UCB3: 24.0 lbs.

Agency Approvals



UL Listed for Commercial CCTV Equipment (UL 2044).

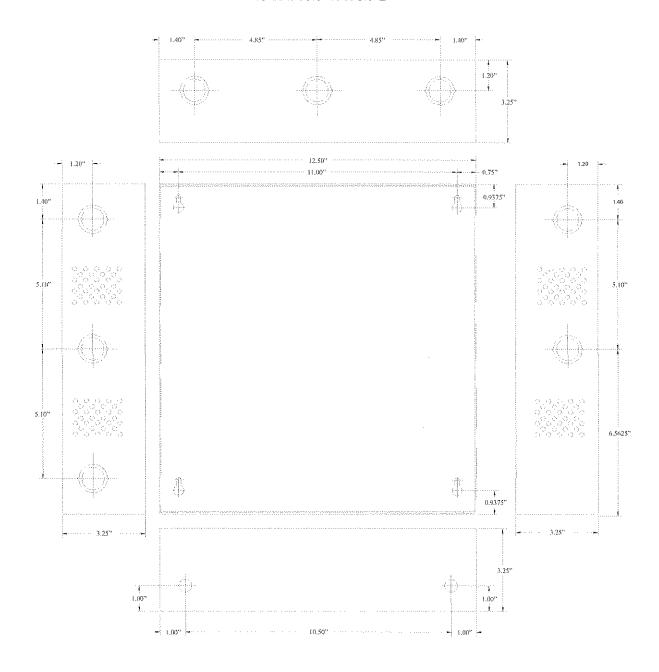


CUL Listed - CSA Standard C22.2 No.1-98, Audio, Video and Similar Equipment.



European Conformity

Enclosure Dimensions 13"H x 13.5"W x 3.5"D





WZ18 Integrated Day/Night High-res Bullet Camera



- ▶ 550 TVL high resolution 1/3 in SuperHAD CCD
- ► Mechanical filter for vivid daytime color
- > 20 m (66 ft) of high performance night vision
- > 3 to 12 mm varifocal auto-iris lens
- > IP66 with external zoom and focus adjustments

The WZ18 brings together 550 TVL high resolution imaging, mechanical filter CCD technology and ruthlessly efficient dealer-friendly design. The camera delivers 20 m (66 ft) of high performance night vision.

The WZ18 incorporates 18 LEDs which are powerful enough to drive infrared to a maximum range of 30 m (100 ft). For the purposes of CCTV surveillance imaging, the resulting infrared illumination delivers high performance night vision images up to a distance of 20 m (65 ft).

The WZ18 uses a 1/3 in CCD image sensor, delivering 550 TVL images. Using a dual window IR-Cut and IR-Pass filter, the WZ18 delivers vivid color during day and exceptional performance to infrared at night. The mechanical filter technology helps eliminate focus shift and infrared bleed for effective 24/7 performance.

The WZ18 incorporates a 3 to 12 mm varifocal, auto-iris lens for versatile optical function. Focus and zoom are controlled externally by hand, requiring no tools for adjustments and making WZ18 a true Plug-and-Play camera.

Designed to IP66 environmental standards, WZ18 operates on either 12 VDC or 24 VAC. Photocell-controlled operation increases energy efficiency and ensures accurate day-night switching for outstanding 24/7 performance. A 360° pan / 90° tilt bracket and sunshield are both included as standard.

Functions

Applications

- Commercial
- Schools and colleges
- Industrial sites
- Residential
- Warehouses
- Parking lots
- Retail
- Hotels and nightclubs
- Transportation hubs

Technical Specifications

Video

Signal Processing	Digital signal processing (DSP)
CCD Camera	1/3 in SuperHAD CCD with Mechanical Fil- ter technology
Filter	Dual-window mechanical type, IR Pass, IR- Cut
Resolution	High resolution 550 TVL
Effective Pixels (H x V)	PAL: 795 x 596, NTSC: 811 x 508
Night-Time Sensitivity	0 lux (infrared on)
Day-Night Switching	Photocell-controlled, automatic
Electronics Iris	1/50 to 1/100,000 s (PAL),
	1/60 to 1/100.000 s (NTSC)

Output Signal	1Vpp composite video, 75 ohm
S/N Ratio	Greater than 48 dB
Gamma	0.45
Lens	Varifocal 3.3 to 12mm, DC auto-iris
Lens Control	Externally adjustable zoom, focus and auto- iris
LEDs	Even-distribution infrared array, photocell-controlled
Wavelength	850 nm
Number of LEDs	18
Electrical	
Voltag e	12 to 24 VDC or VAC
Power Draw	4.8 W max (IR lamp on)
Power Supply	Not included
Mechanical	
Construction	Robust aluminum extrusion
Finish	Anodized silver
Sunshield	Included as standard
Bracket	360° pan / 90° tilt bracket included as standard
Weight	0.85 kg (1.9 lb)
Dimensions	Ø 76 x 210 (L) mm, (3.0 x 8.3 in)
Environmental	
Operational Temperature	-30 °C to +55 °C, (-22 °F to +131 °F)
Environmental	Designed to IP66

Ordering Information

WZ18NV312-0 IDN High-	res Bullet Camera
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WZ18NV312-0

IDN bullet cam, 550TVL, SuperHAD, color switching to bw, mech filter, 18LEDs, silver, NTSC, 3 to 12 mm lens, PSU separate

WZ18PV312-0 IDN High-res Bullet Camera

WZ18PV312-0

IDN bullet cam, 550TVL, SuperHAD, color switching to bw, mech filter, 18LEDs, silver, PAL, 3 to 12 mm lens, PSU separate

Accessories

EXPS.008 VAC Power Supply Power supply 120 VAC/ 24 VAC 1500 mA EXPS.008

WZMB.001 Gang Box Adapter Plate

WZMB.001

Gang box adapter plate for WZ18 and WZ20

PSU230-24

PSU-230-24 Power Supply Power Supply, 230 VAC / 24 VAC, 50 W

Americas:
Bosch Security Systems, Inc.
130 Perinton Parkway
Fairport, New York, 14450, USA
Phone: +1 800 289 0096
Fax: +1 585 223 9180
security,sales@us.bosch.com
www.boschsecurity.us

Europe, Middle East, Africa: Bosch Security Systems B.V. P.O. Box 80002 5600 JB Eindhoven, The Netherlands Phone: +31 40 2577 284 Fax: +31 40 2577 330 emea.securitysystems@bosch.com www.boschsecurity.com

Asia-Pacific: Represented by Robert Bosch (SEA) Pte Ltd, Security Systems 38C Jalian Pemimpin Singapore 577180 Phone: +85 6319 3453 Fax: +85 6319 3499 apr.securitysystems@bosch.com www.boschsecurity.com



WZ20 Integrated Day/Night High-res Bullet Camera



- ► 550 TVL high resolution 1/3 in LXR CCD
- Mechanical filter for vivid daytime color
- > 46 m (150 ft) of high performance night vision
- > 5 to 50 mm varifocal auto-iris IR-corrected lens
- > IP66 with external zom and focus adjustments

The WZ20 brings together high resolution LXR imaging, the latest advances in mechanical filter lensing technology and ruthlessly efficient dealer-friendly design. The camera delivers 45 m (150 ft) of high performance night vision.

The WZ20 incorporates 30 LEDs which are powerful enough to drive infrared to a maximum range of 91 m (300 ft). For the purposes of CCTV surveillance imaging, the resulting infrared illumination delivers high performance night vision imaging up to a distance of 45 m (150 ft).

The WZ20 uses proprietary LXR 1/3 in CCD technology, delivering 550 TVL images. LXR technology is field-proven for outstanding IR spectral response, as well as video images characterized by low-smear, low-streak and excellent anti-blooming characteristics.

Using a dual window IR-Cut and IR-Pass filter, the WZ20 delivers vivid color during day and outstanding sensitivity to infrared at night. Photocell-control increases energy efficiency and ensures accurate day-night switching for outstanding 24/7 performance.

The WZ20 also features a versatile 5 to 50 mm IR-corrected lens for outstanding performance under both visible light and infrared illumination. Combined with the mechanical filter technology, the WZ20 optical core virtually eliminates focus shift between color and infrared modes, allowing sharp focus during day or at night.

Focus and zoom are controlled externally by hand, requiring no tools and making the 5 to 50 mm IR-corrected lens effortless to adjust. A 90° pan / 360° tilt bracket and sunshield are both included as standard.

Functions

Applications

- Commercial
- Schools and colleges
- Industrial sites
- Residential
- Warehouses
- Parking lots
- Retail
- Hotels and nightclubs
- Transportation hubs
- Perimeters

Technical Specifications

Video

Signal Processing	Digital signal processing (DSP)
CCD Camera	1/3 in LXR CCD with Mechanical Filter tech- nology
Filter	Dual-window mechanical type, IR Pass, IR- Cut
Resolution	High resolution 550 TVL
Effective Pixels (H x V)	PAL: 795 x 596, NTSC: 811 x 508
Night-Time Sensitivity	0 lux (infrared on)
Day-Night Switching	Photocell-controlled, automatic
Electronics Iris	1/50 to 1/100,000 s (PAL),
	1/60 to 1/100,000 s (NTSC)
Output Signal	1 Vpp composite video, 75 ohm
S/N Ratio	Greater than 48 dB
Gamma	0.45
Lens	IR-corrected, varifocal 5 to 50 mm, DC auto-iris
Lens Control	Externally adjustable zoom, focus and auto- iris
LEDs	Even-distribution infrared array, photocell- controlled
Wavelength	850 nm
Number of LEDs	30
Electrical	
Voltage	12 to 24 VAC or VDC
Power Draw	8 W max (infrared on)
Power Supply	Not included
Mechanical	
Construction	Robust aluminum extrusion
Finish	Anodized silver
Sunshield	Included as standard
Bracket	360° pan / 90° tilt bracket included as standard
Weight	1.7 kg (3.8 lb)

Ordering Information

WZ20NXV550-0 IDN High-res Bullet Camera IDN bullet cam, 550TVL, ExView, color switch- ing to bw, mech filter, 30LEDs, silver, NTSC, 5-50 mm lens, PSU separate	WZ20NXV550-0
WZ20PXV550-0 IDN High-res Bullet Camera IDN bullet cam, 550TVL, ExView, color switch- ing to bw, mech filter, 30LEDs, silver, PAL, 5-50 mm lens, PSU separate	WZ20PXV550-0
Accessories	
EXPS.008 VAC Power Supply Power supply 120 VAC/ 24 VAC 1500 mA	EXPS.008
WZMB.001 Gang Box Adapter Plate Gang box adapter plate for WZ18 and WZ20	WZMB.001
PSU-230-24 Power Supply Power Supply, 230 VAC / 24 VAC, 50 W	PSU230-24

Environmental

Dimensions

Operation Temperature Range -30 °C to +55 °C, (-22 °F to +131 °F)

Environment Designed to IP66

Americas: Bosch Security Systems, Inc. 130 Perinton Parkway Fairport, New York, 14450, USA Phone: +1 800 289 0096 Fax: +1 885 223 9180 security: sales@us.bosch.com www.boschsecurity.us

Europe, Middle East, Africa:
Bosch Security Systems B.V.
P.O. Box 80002
S600 JB Eindhoven, The Netherlands
Phone: + 31 40 2577 284
Fax: +31 40 2577 330
mea.securitysystems@bosch.com
www.boschsecurity.com

Ø 98 x 292 (L) mm, (3.0 x 11.5 in)

Asia-Pacific: Represented by Robert Bosch (SEA) Pte Ltd, Security Systems 38C Jalan Pemimpin Singapore 577180 Phone: 455 6319 3455 Fax: 456 6319 3455 Fax: 456 6319 3499 apr.securitysystems@bosch.com www.boschsecurity.com

United States

- * #K-\$216& Day/Night CCTV Camera

Broduck - 23 Barubas & Support

Color Comemb

r Bons Cameras r Network Cameras

P. Dale Standard

Special Companies -

13.3 Interline Transfer CCD 610 (H) x 492 (V) 350 TVL Horizontal 750 TVL Horizontal 746 TV 68 10 LO LOS (K to 1000° K CS Mount (Lons Nor Included) User Settable (On/Off)

Image Sensor
Petture Elements
Resolution
Day/Night Punction
Minimum Subject Illumination
White Balance Range
Lens Mount
Backlight Compensation
Signal-to-Noise Ratio Video Format

Synchronization System
Line-Lock V Phase Adjustment
Gamma Compensation
Shutter Control
Auto Electronic Shutter
AGC.

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So est sentative (Orio OLI)

So dis Si Vipp. 75 oliun, BNC

NTSC, 2.1 Interface
Internal or AC Line Lock

0.45

AES (1/60 to 1/100,000 sec.)

Ves

10-Bit

14 °F to 122 °F (-10 °C to +50 °C)

14" x 20" Threaded Hole Provided (Top and Bottom)

AC 24 V (41 10%) DC 12 V

2.46" (W) x 1.97" (H) x 4.57" (D)

12.3 ounces (350 g)

12.3 ounces (350 g)

12.3 ounces (350 g)

12.3 ounces (350 g)

12.4 °C Class A

FCC Class A

FCC

Digital Signal Processing
Opporting Temperature
Cancer Mounting Method
Power Supply
Dimensions (Inches)
Weight
Auto-Lits Lors Support
Safer, Standard
Emission Standard
Emission Standard
Accessivies
Accessivies

Describe : Managada : Commontant Proc

http://www.hoshibaxecutity.com/posducts/paid_ramers_detail_k6010m/yeft3/147011 6-59:52 AMj

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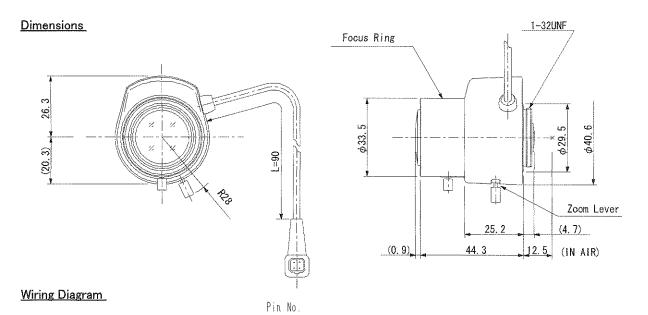
* To. A. Todaka American

computar

TG3Z2910FCS

3X 2.9mm-8.2mm F1.0 for 1/3 type Cameras, Vari-focal Auto Iris DC Drive CS-Mount

Model No.		TG3Z2910FCS	TG3Z2910FCS		Front	φ 18.8mm		
Focal Length		2.9mm - 8.2mm	2.9mm - 8.2mm		Rear	Rear \$\phi 9.0mm		
Max. Aperture Rat	io	1:1.0		Back Forcal	Tele	14.0mm		
Max. Image Forma	t .	4.8mm x 3.6mm	ı(φ6mm)	Length	Wide	7.8mm		
Operation Range	Iris	F1.0 - F360C		Flange Back Len	igth	12.5mm		
	Focus	0,5m - Inf.		Mount		CS-Mount		
	Zoom	2.9mm - 8.2mm		Filter Size				
Control	Iris	DC Auto Iris	DC Auto Iris		Dimensions		φ 33.5mm x 46.6mm x 44.3mm	
	Focus Manual		Manual		Weigtht			
	Zoom	Manual						
Angle of View	D	1/3 type	133,9° - 44,2°	1/4 type	91.0° - 33.0°			
	Н		98.3° - 35.2°		70.7° - 26.3°			
	V		70.7° - 26.3°		51.9° - 19.7°			
Coil Drive Control		190Ω	190Ω					
		855Ω	855 Ω					
Operating Temper	Operating Temperature		-10°C - +50°C					



BROWN

YELLOW

ORANGE

RED

Control(-)

Control(+)

Drive (+)

Drive (-)

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Buy,

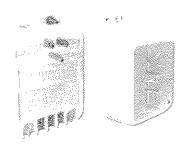
AC Transformers

ELK-TRG2440 24VAC, 40 VA

- · Auto-Resetting (PTC) Fused Secondary
- · Green Power On LED
- Grounding Prong & Terminal
- · Electrical outlet mounting tab
- UL Listed
- · Wire Strain Relief
- · Lifetime Limited Warranty

Information.

L P1216,TRG1640,TRG2440 Data Sheet



Specifications:

Input Voltage:

120 VAC, 60Hz, .43W.

· Output Voltage:

TRG1640 = 16.5 Volts A.C.

TRG2440 = 24 Volts A.C.

· Output Power:

TRG1640 = 45 VA.

TRG2440 = 40 VA.

• Size:

H=4.14"(105), W=2.74"(70), D=2.2"(56)

• Color:

White



Home Automation magazine has chosen

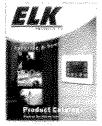
ELK's AC Transformers as one of it's

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TruVision™ Line Video Recorder

Overview

The TruVision™ DVR 30 (TVR 30) digital video recorder brings the benefits of digital security monitoring to small and mid-sized commercial applications. A user-friendly interface and more than a month of hard disk recording make the TVR 30 easy to install, use and maintain. Users can efficiently view, record, and play back recorded high-quality video that is transmitted based on alarms, events and recording attributes like schedules. For added convenience, users can configure the DVR, view live video or search and play back video through the IR remote control, mouse, front-panel buttons or the remote browser.

A cost-effective surveillance solution, the TVR 30 features H.264 video compression technology that allows users to save high-quality images into smaller file sizes for easier storage and streaming over an Ethernet network. Any range of recorded video can be easily copied to a blank recordable CD or DVD and played back without installing any software on the playback PC.

The Record Wizard makes programming easy—by entering the number of days to store video, the DVR programs itself. Up to 16 channels of audio can be recorded for applications requiring audio which is played in sync with video. The dual streaming feature makes it easier to transmit video and audio over low-bandwidth networks.

The TVR 30 is a fit-and-forget solution, with a simple search function for reviewing video. External alarm inputs and motion detection trigger an alarm when movement in a user-definable area of the image is detected. The feature set includes complete search by alarm, motion, and time and date. Video evidence is easily archived to an external device connected through a USB 2.0 port – and because USB 2.0 is hot-swappable, an external device can be connected at any time. Transferring video information is quick and easy, as the TVR 30 creates a file that can be viewed by any PC with a TVR 30 player, making it ideal for retail, education, police interrogation rooms and small commercial applications.

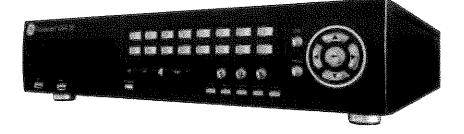
Standard Features

- Network-friendly dual streaming means more efficient and flexible video transmission
- Simple one-button archive video via USB 2.0, CD/DVD or download allows convenient remote access to archived video
- Record Wizard facilitates quick, easy configuration and installation—program DVR to record by number of days or by frame rate.
- High-quality recording resolutions—CIF, 2CIF, D1—deliver clear images for quick decision making
- Record up to 120 fps NTSC (100 PAL) at D1 for clear images and quick decision making
- Simple, free, pre-configured DDNS makes remote access easy
- Video Authentication ensures video authenticity that can be verified in browser
- Motion-detection recording saves storage space and time required to search for events
- Network capable via Ethernet (TCP/IP) to provide remote monitoring, searching, playback, archiving, configuration, alarm notifications and firmware upgrades
- 16 channels audio recording
- Bi-directional audio—1 channel allows users to carry on a conversation via remote software over network to DVR
- POS and ATM text insertion (requires ProBridge accessory, sold separately)

TruVision Line

DVR 30

H.264 Digital Video Recorder, Dual-Streaming





GE Security

North America T 888-GE-SECURITY 888-437-3287

Asia

T 852-2907-8108 F 852-2142-5063

Australia T 61-3-9239-1200 F 61-3-9239-1299

Europe T 32-2-725-11-20 F 32-2-721-40-47

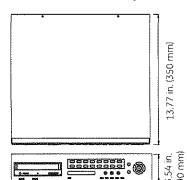
Latin America T 305-593-4301 F 305-593-4300

gesecurity.com

Specifications subject to change without notice.

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Dimensional Diagram



14.25 in. (362 mm)

Ordering Information

_	
TVR-3008-500	TruVision™ DVR 30, 8 ch, DVD/CD, 500 GB Storage
TVR-3008-1T	TruVision DVR 30, 8 ch, DVD/CD, 1T8 Storage
TVR-3008-2T	TruVision DVR 30, 8 ch, DVD/CD, 2TB Storage
TVR-3016-500	TruVision DVR 30, 16 ch, DVD/CD, 500 GB Storage
TVR-3016-1T	TruVision DVR 30, 16 ch, DVD/CD, 1TB Storage
TVR-3016-3T	TruVision DVR 30, 16 ch, DVD/CD, 3TB Storage

Specifications

Video & Audio

- 8, 16 video inputs, composite BNC, NTSC/PAL compatible
- Video looping (manual termination)
- Recording resolution: CIF, 2CIF, D1
- · Real-time Live on all video channels
- Video compression: H.264
- Watermarking
- VGA & HD output resolutions: 800 x 600, 1024 x 768, 1280 x 1024)
- 16 audio channels, line input
- Bi-directional audio (1 channel), line output
- Recording modes: Schedule, Motion, Alarm, continuous
- · Pre-alarm (up to 30 seconds)
- Video recording quality: 7 preset settings, Record Wizard, Expert Mode
- Motion detection, 12 x 16 grid array, sensitivity, adjustable trigger
- · Video loss detection

Electrica

Power source: Internal power supply, Universal, Auto-switching, 100 - 240 VAC, 50/60Hz, 100W

Mechanica

- Dimensions (WxHxD): 14.25 x 3.54 x 13.77 in, (362 x 90 x 350 mm)
- 2RU
- Weight: 5.5 Kg

Connectors

- Main monitor: VGA, S-video & composite BNC, HD output
- · Spot monitor: composite BNC
- · Alarm I/O: Terminal block, 3 output relays
- RS-422/RS-485 terminal block
- Video input: composite BNC, (1 Vp-p), loop through
- Audio I/O: terminal block input, RCA output
- 10/100/1000 Ethernet: RJ-45
- USB 2.0 port2, 2 front, 2 back
- RS-232C (D-Sub 9 pin male connector)

Features

- Embedded Operating System: Linux
- Easy-to-use Graphical User Interface, supported by mouse and IR remote control
- Network protocols: DHCP, Static, PPPOE, DDNS
- Bandwidth Throttle
- Dual streaming on live video
- Daylight Saving Time
- One button Archive: Export video/audio built-in CD/DVD burner or USB devices (USB flash drive or HDD)
- Supports KTD-405 Series keyboards
- PTZ control from front panel, IR remote and software
- PTZ protocols include: GE 485, GE 422, Pelco P & D, AD 422, and others
- Text insertion (ProBridge accessory required, sold separately)
- IR remote control (included with batteries)
- USB Mouse (included)

Software:

Web Browser Easy to install ActiveX control in Web Browser

- View live video, from 1 camera to all 16 cameras
- Dual streaming enables low-bit rate for low-bandwidth networks
- · Search and playback video
- · Archive video to Client PC
- Remote configuration. Easy to program DVR via Web Browser

Minimum System Requirements:

- Intel-compatible PC, 700 MHz or faster
- 1 GB RAM or more
- Windows XP, Vista & 7
- IE 6.x, 7.x or 8,x

Video Player

• Play video that was archived from DVR on PC Video Player does not require any components to be installed on PC (Zero Footprint).

Minimum System Requirements:

- Intel-compatible PC, 700 MHz or faster
- 1 GB RAM or more
- Windows 7, XP, Vista

See website or contact Technical Support for latest information on system requirements.

TruVision™ DVR 30 storage tables

16-Channel Units

					,			, ,		
į	Storage		30 Days			6 0 Odys			90 Days	
		CIF	SCIF	01	CIF	20F	01	CIF	2C1f	01
	500 GB HDD	1 fps		-	1 fps	-	-	-	_	-
-	1 TB HDD	3.75 fps	1 fps	1 fps	1 fps	-	-	1 fps	-	-
-	3 TB HDD	11 fps	3.75 fps	1 fps	3.75 fps	1 fps	1 fps	3.75 fps	1 fos	1 fps

Storage table assumes continuous recording for all 16 cameras at highest quality setting in NTSC video format (with audio recording off). Actual storage and frames per second (fps) may vary by application, camera type, and environmental conditions.

8-Channel Units

A		-	Commence of the second	and the second of the second						-
1 Synthetica		NO Owner			AG Overse			Of Cherry		
1 2000 - 200		, an arays			no osys			no ways		
	77.137	237.50	E11.15	7716	371153	75.5	61.6	2771.0	25.3	
!	20, 11	0.5	57 A		4.5.7.7		U.1.	65-17	12.7	
EAR CRIAND	7.75 foc	1 fnc :	1 400	1 fmc			1		I	÷
1 200 GB UDD 1	2,72105	TIN2 :	T 1D2	1 1h2		-	-	-	-	
1 70 1100	7 E for	1 6	1 4	7764	1 4	1 5	1 £	1 4		
TIDHDD	7.5 105	1105	1 105	: 5./5TDS	1 TPS	⊥ ⊤DS	1 TDS	: ITPS	-	!
2201100	7 C f	3255	2 25 E		n (4.5	2256	4.5	4.5	
: 2 ID NUU	7.5 IDS	: 5./5TDS	5.75 TDS	7.5 TDS	1 TDS	: TDS	3./5 TDS	T IDS	T IDS	

Storage table assumes continuous recording for all 8 cameras at highest quality setting in NTSC video format (with audio recording off). Actual storage and frames per second (fps) may vary by application, camera type, and environmental conditions.



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Honeywell

GENESIS SERIES

Coaxial Cable Part No. 5013

Description: 20 AWG RG59/U COAX + 18/2 CL2

Compliance: UL13 & 444, NEC Article 820

Construction:

Conductors 20 AWG Solid Bare Copper center conductor

2 - 18 AWG 19/.0092 Stranded Bare Copper

Insulation <u>Coax</u> <u>18 AWG 2/C</u>

Type Foamed Polyethylene Polypropylene

ColorWhiteBlk, RedThickness0.057" nom.0.006" nom.Diameter0.145" nom.0.058" nom.

Lay Length --- 2.25" nom.

Braid

Strands 0.005" nom. Bare Copper

% Coverage 95 nom.

Jacket Coax 18 AWG 2/C

Type PVC

Color Blk or Wht

Thickness 0.034" nom. 0.020" nom.

Diameter 0.245" nom. 0.156" nom.

Overall Diameter 0.420 x 0.245" Nom.

Legend (Ink Print) HONEYWELL P/N 5013 CCTV PREMIUM RG 59/U 20 AWG + 2C18 3038058 (ETL)

CL2 75C SUN. RES. W/O# XXXXXX-XXXXXX XXXX FT CAMERA/ZONE A B C

DEF123456789

Properties

Voltage Rating 300V

Temperature Rating -20 to 75 °C
Capacitance 17 pf/ft nom.
Impedance 75 Ohms nom.

Resistance (Conductor) 10.9 Ohms/M' at 20°C Resistance (Shield) 2.6 Ohms/M' at 20°C

Attenuation (db/100') 0.2 at 1 MHz, 5.9 at 400 MHz, 10.8 at 1000 MHz

Flame Rating UL 1685 Vertical Tray

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Seesa

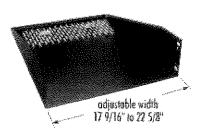
Wide Unit Shelf System



Accommodating components too wide to fit the 17-3/8" inside width of standard rackshelves, these shelf systems fit units up to 22-1/2" wide, and either bolt into millwork or to the mounting angle of standard rackrail. Occupies 3 rackspaces, the WUSS system comes complete with a pair of ears, a bottom, and appropriate assembly hardware.

50 lb. Weight Capacity.

Part #	Dayij
WUSS11.5	11-1/2"
WUSS14	14"
WUSS15.5	15-1/2*
WUSS17.5	17-1/2"
WUSS20.5	20-1/2"



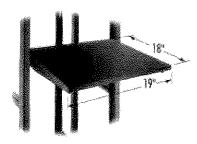
14" depth available - fits our DWR series shallow wall racks!

Fixed Writing/ Computer keyboard Shelf



The FWS fixed writing/computer keyboard shelf bolts quickly to any 19" rack to create an ideal workspace. With an attractive, black laminate top made from 3/4" furniture-grade MDF board, it occupies 2 rackspaces and comes complete with special rail-mounting hardware.

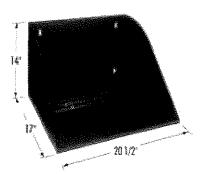
FWS



Wall Mount Shelf

Wall mounting non-rackmount components is much easier with our WMS wall mount shelf. Featuring a fully welded design using 16-gauge steel, the unit's 200 lb. capacity gives it unrivaled strength in its class. With a vented bottom to help keep things cool, both 1/2" and 3/4" electrical knockouts are provided for your convenience. Can be used to economically wall-mount our RK series racks.

Park# WMS-20



Furniture Side Wall Mount Shelf

- · Rounded outside corners for safety
- Easy to install
- · Standard colors are dark cherry, graystone and maple (shown)
- Hold items up to 18" wide and 15" deep with room for cables
- 20-1/4" Wide, 18-1/2" Deep, 9" tall

100 lb. weight capacity

Part #	Color
WMS-1614DC	Dark Cherry
WWS-1614GS	Graystone
WMS-1614MP	Maple



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Contact Us

CM6700 Series Matrix

MICROPROCESSOR-BASED SWITCHER/CONTROLLER, 16 X 2/4

Product Features

- 16 Video Inputs; 2 or 4 Video Outputs
- 20-Character Camera Title
- Time (24-Hour or AM/PM Formats); Date (4 Formats)
- · Alarm Display Call-up from 18 Direct-Connect Alarm Inputs
- Video Inputs Individually Selectable for Terminating or Looping
- Coaxitron® Compatible
- Individual Monitor Sequential Switching with Preset Call
- · Compatible with RS-422 Pelco D or Pelco P Protocol
- Camera Control Selection: Coaxitron® or RS-422; Individually Selectable per Camera
- Control Genex® Multiplexers
- Selectable Data Port: RS-232/RS-422/RS-485
- Password-Protected Menu Configuration
- User Partitioning to Prevent Unauthorized Viewing

The **CM6700 Matrix** switcher/controller is a very affordable, highly versatile, full-featured cross-point matrix switcher. The **CM6700** provides switching and control for 16 video inputs and up to 4 monitor outputs from any one of up to 8 keyboards.

The **CM6700 Matrix** switching unit is designed to be remotely operated from desktop keyboards or external computer systems.

The versatile mounting system allows for a variety of installation options: either in a 19-inch rack (front or rear mount), wall, or shelf mount. This versatility allows the bulk of the video cables to be routed to a convenient area such as a telephone room instead of the operator location.

Straightforward on-screen menus make configuring the **CM6700** simple and easy. (The **CM6700** even lets you switch to Spanish-language configuration menus.) The user-enabled character display shows time and date, operation mode, camera number, and a 20-character title for quick, easy identification of the on-screen video. The display characters are white with black outline for viewing under varying lighting conditions. The display can be located anywhere on the viewing monitor and can be turned on or off.



CM6700-MXB SWITCHER/CONTROLLER

- « Compatible Keyboards:
- Switcher Only (KBD100)
- Switcher Plus Multi-Speed Control, Presets, Patterns, Receiver Auxiliary (KBD200A)
- Switcher Plus 3-Axis Joystick for Variable Speed PTZ Control, Presets, Patterns, Receiver Auxiliary (KBD300A)
- Optional CM6700-VMC Two-Monitor Expansion Card
- Includes Spanish-Language Menus

The **CM6700** supports two system macros, or salvo sequences, to allow quick call-up of up to four cameras to four monitors simultaneously. Salvo sequences include preset call of suitably equipped (PTZ or dome) receivers.

When an alarm is received, the **CM6700** will switch the camera for that alarm to the selected monitors. If a PTZ function is being performed when an alarm is received, an alarm-pending message will appear. An alarm will automatically call a preset and preposition a camera with suitable (PTZ or dome) receivers. Alarms are cleared either by keyboard acknowledgment or timeout after contact deactivation. Two extra alarm inputs allow for alarm-activated salvo sequence call-up. A Form C alarm relay output allows for automatic activation of an alarm event recorder or other device. In addition, this relay is manually controllable from the system keyboard.







KBD100



KBD200A



The KBD100, KBD200A, and KBD300A keyboards have been engineered for use with the CM6700 matrix switcher. Each keyboard in the series offers a different level of control and functionality in order to provide maximum versatility in every application.

KBD100

Our most economical keyboard, the KBD100 features limited CM6700 matrix control for operator locations where PTZ functions are not intended or not required. Features include configuration capabilities, camera and monitor call-up, operation of sequences and patterns, and three function keys to allow local auxiliary activation.

KBD200A/KBD300A STANDARD FEATURES

The KBD200A and KBD300A full-feature keyboards offer PTZ control, configuration capabilities, camera and monitor call-up, operation of sequences and patterns, and local auxiliary activation. Added function keys allow control of receiver auxiliaries. The function keys have dual selections to allow remote control of multiplexer functions when a Pelco MX4000 Series multiplexer is used in conjunction with the CM6700 matrix switcher.

These keyboards can be configured for Direct Mode operation; see below.

KBD200A/KBD300A EXCLUSIVE KEYBOARD FEATURES

This economical keyboard features "Touchspeed" multi-speed control of variable speed receivers.

The KBD200A additionally features an ASCII Mode, included specifically for phone line video applications. KBD200A ASCII Mode allows complete operational control of the CM6700 matrix switcher through the ASCII port (configuration not supported). When configured for ASCII Mode control, the KBD200A outputs RS-422 ASCII protocol at 9600 baud. This configuration requires the KBDKIT and, in some cases, the PV140 RS-232 to RS-422 converter.

The KBD300A keyboard features a 3-axis, vector-solving joystick that includes a twisting, return-to-center head for precise, single-hand control of PTZ functions.

DIRECT MODE RECEIVER CONTROL

The KBD200A and KBD300A keyboards can be alternately configured for Direct Mode operation. Each keyboard requires a remote keyboard wiring kit (KBDKIT) for Direct Mode

Direct Mode control is a feature that allows 2-wire control of up to 16 daisy-chained receivers directly from the keyboard.

When configured for Direct Mode control, keyboards output Pelco P protocol at 4800 baud.

Direct Mode control features include configuration and call-up of presets, full PTZ control of variable speed receivers, and activation of receiver auxiliaries.

The KBD300A automatically recognizes the configured mode (Direct or CM6700).

TECHNICAL SPECIFICATIONS

SWITCHER

GENERAL

Memory Protection Replaceable lithium battery provides data

protection for ten years

Keyboard Capacity

Receiver/Dome Control Coaxitron® and RS-422

Alarm inputs 18, configurable (includes presets and N.O./

N.C. device)

Alarm Relay Outputs 1, DPST 0.5 A at 125 VAC Rating

General Purpose Outputs 2, open collector; 32 VDC max., 25 mA max.

Data Ports

Receiver RS-422, Pelco D protocol 2400 baud. Pelco P protocol 2400 to 9600 baud Data (Computer) RS-232/RS-422/RS-485, 1200 to 19.2K baud

Keyboard Ports

Local Port Provides data and 12 VAC power for one

keyboard

Data only port for all additional or remote Remote Port

keyboards; each keyboard connected to this

port requires a KBDKIT

Dimensions (switcher only)

10.5" D x 17.0" W x 3.5" H (26.67 x 43.18 x 8.89 x cm)

Factory configured for EIA rack mount (2 RUs); Mounting (switcher only)

rack ears can be removed for wall mount or

freestanding applications

Weight Shipping 9.46 lb (4.28 kg) 13 lb (5.88 kg) CM6700-MXB2 CM6700-MXB4 10.22 lb (4.62 kg) 14 lb (6.34 kg)

ELECTRICAL

Power Source 120 V or 230 V, 50/60 Hz

Power Consumption 10 W

SWITCHER CHARACTERISTICS

16 inputs, BNC, terminating or looping Video Inputs

(jumper selectable)

0.5 to 2.0 Vp-p composite video

Video Outputs 2 or 4 outputs, BNC

Cross-point video matrix, RS-170, NTSC, CCIR Switching Type

and PAL compatible Vertical interval switching Less than 16 milliseconds (typical)

VIDEO

Switching Method

Switching Time

Bandwidth

Frequency Response Signal-to-Noise Ratio

Adjacent Channel Crosstalk

Video Cable Distances

Differential Gain Differential Phase 1.02° Line Tilt 0.6% Field Tilt 1.2% Gain DC Output Zero volts

15 MHz

Flat to 8 MHz, ±1dB to 15 MHz -60 dB (peak-to-peak vs. RMS noise)

-49.6 dB at 3.58 MHz

1.03% Unity (±1dB)

Minimum cable requirements:

75-ohms impedance

· All-copper center conductor

All-copper braided shield with 95% braid coverage

Cable Type	Maximum Distance
RG59/U	750 ft (228 m)
RG6/U	1,000 ft (304 m)
RJ11/U	1,500 ft (457 m)

CHARACTER GENERATION

Character Type White with black outline

Camera Identification 1 line, 20-characters plus camera number

Date/Time

Configurable On-screen, menu driven Character Set 80 ASCII characters

KEYBOARDS

ELECTRICAL

Input Voltage 12 VAC or ±12 VDC

Power Consumption 5 W

Connector Type RJ-45, 8-pin modular (female)

Communication Type RS-485*

*Maximum cable distance for RS-485 communication over 24-gauge wire is 4,000 feet (1,219 m). Pelco recommends using shielded twisted pairs, such as Belden 9843 or similar cable that meets or exceeds the basic requirements for EIA RS-485 applications.

KEYBOARD COMMUNICATION

6700 Mode (KBD100/200A/300A)

Interface RS-485 Protocol Pelco ASCII Baud Rate 9600

Communication Parameters

8 data bits, odd parity, 1 stop bit

Direct Mode (KBD200A/KBD300A)

Interface RS-422 Pelco P Protocol Baud Rate 4800

Communication

8 data bits, no parity, 1 stop bit **Parameters**

(KBD200A) **ASCII Mode** Interface RS-422 Protoco! Pelco P

Baud Rate 9600 Communication

Parameters 8 data bits, odd parity, 1 stop bit

GENERAL

Keyboard Keypad Electromechanical

Joystick (KBD300A) 3-axis, vector solving, twisting, return-to-

center head

Display

KBD100 7-segment digital display: Red LED, 1 cell KBD200A/KBD300A 7-segment digital display: Red LED, 2 cells Multiplexer mode indicator: Green LED

Ambient Operating

Temperature 20° to 120°F (-7° to 49°C) 10% to 90%, noncondensing Humidity

Dimensions KBD100

KDB300A

7.125" L x 6.00" W x 2.25" H (18.10 x 15.24 x 5.72 cm) KBD200A 7.125" L x 8.125" W x 2.25" H (18.10 x 20.64 x 5.72 cm)

7.125" L x 9.50" W x 2.25" H (24.13 x 18.10 x 5.72 cm)

Weight Unit Shipping KBD100 1.9 lb (0.86 kg) 3 lb (1.35 kg) KBD200A 2.1 lb (0.97 kg) 3 lb (1.35 kg) KBD300A 2.5 lb (1.12 kg) 5 lb (2.26 kg)

MODELS

Matrix Bay

CM6700-MXB2 Switcher/controller. 16 inputs, 2 outputs,

NTSC, 120 V, 50/60 Hz

CM6700-MXB2-X Switcher/controller. 16 inputs, 2 outputs, PAL,

230 V, 50/60 Hz

CM6700-MXB4 Switcher/controller. 16 inputs, 4 outputs,

NTSC, 120 V, 50/60 Hz

CM6700-MXB4-X Switcher/controller. 16 Inputs, 4 outputs, PAL,

230 V, 50/60 Hz

Keyboards

KBD100* Desktop keyboard, switcher only (25-foot

cable supplied)

KBD200A* Desktop keyboard, multi-speed PTZ, (25-foot

cable supplied)

KBD300A* Desktop keyboard, variable-speed PTZ,

(25-foot cable supplied)

*If distance between switcher and keyboard exceeds 25 feet, use KBDKIT/KBDKIT-X.

Note: In addition, the KBD200A and KBD300A keyboards provide control capabilities for Pelco multiplexers. The function key icons shown are active only when used in conjunction with an appropriate Pelco multiplexer.

CERTIFICATIONS/RATINGS

- CE compliant (CM6700-MXB2-X, CM6700-MXB4-X, CM6700-VMC2-X, KDB100, KDB200A, KDB300A, and KBDKIT-X)
- FCC, Class A (CM6700-MXB2, CM6700-MXB4, CM6700-VMC2, KBD100, KBD200A, and KBD300A)
- UL/culL Listed (CM6700-MXB2, CM6700-MXB4, KBD100, KBD200A, and KBD300A)
- Meets NEMA Type 1 standards

OPTIONAL ACCESSORIES

CM9760-CDU-T Code distribution unit; 16-channel RS-422

transmit only (2 data wires and ground) distributor. Primarily used for configuring up to 16 pan/tilt/zoom receivers in a "star"

configuration.

CM6700-VMC2 2-monitor output expansion card (NTSC).

Expands a CM6700-MXB2 to a four-monitor system and features easy installation and

plug-and-play functionality.

CM6700-VMC2-X 2-monitor output expansion card (PAL). Use

with CM6700-MXB2-X.

KBDKIT Remote keyboard wiring kit. Required if connecting KBD200A or KBD300A keyboards

connecting KBD200A or KBD300A keyboards to the Remote Keyboard Port on the SCU (6700 Mode) or when using a single keyboard in Direct or ASCII Mode applications. Includes two RJ-45 wall blocks and one 120 VAC to 12 VAC transformer. Maximum cable distance for RS-422/RS-485 communication over 24-gauge wire is 4,000 feet (1,219 m). Use shielded twisted pairs cable that meets basic requirements for RS-422/RS-485

applications. (One wall block and transformer required for each keyboard.)

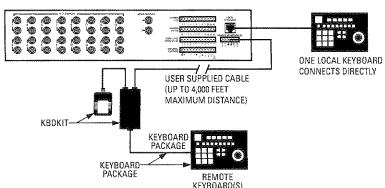
KBDKIT-X Same as KBDKIT except includes 230 VAC to

12 VAC transformer

PV140 RS-422 to RS-232 interface converter and

power supply

SAMPLE CM6700 KEYBOARD WIRING DIAGRAM



IMPORTANT NOTE. PLEASE READ. The network implementation is shown as a general representation only and is not intended to show a detailed network topology. Your actual network will differ, requiring changes or perhaps additional network equipment to accommodate the system as illustrated. Please contact your local Pelco Representative to discuss your specific requirements.

IS20/IS21 Series Camclosure® 2 Camera System

INDOOR MINI DOME, SURFACE AND FLUSH MOUNT

Product Features

- · Fully Integrated Indoor Enclosure with Camera and Lens
- 3 Camera Options
 - Super Dynamic 5 (SD5)™ Day/Night Wide Dynamic Range (WDR)
 - Day/Night High Resolution
 - High Resolution Color
- Varifocal Lens
- · Shipped Completely Assembled, Easy to Install
- 24 VAC or 12 VDC Operation, Autosensing
- Manual, 3-Axis (Pan/Tilt/Rotation) Positioning Allows Adjustment for Optimum Camera Rotation and Placement
- Service Connector for Video Output
- Available in Surface or Flush Mount Models with Smoked or Clear Domes
- Auto Image Stabilizer to Compensate for External Vibration

The IS20/IS21 Series Camclosure® 2 Camera System integrates a camera and lens package into a small, versatile indoor enclosure that can be mounted directly to, or recessed into, a ceiling or wall. The IS20/IS21 Series features a three-axis camera and lens positioning system that is capable of a wide variety of pan and tilt angles.

The IS20/IS21 Series offers three high resolution camera options suitable for a variety of indoor environments:

- Super Dynamic 5 (SD5)[™] day/night wide dynamic range (WDR): Features a high resolution (650 TVL) color camera with auto iris, varifocal lens, and auto back focus. Application examples include environments with difficult lighting that require extremely high sensitivity and dynamic range.
- True day/night: Features a high resolution (540 TVL) color camera with auto iris and varifocal lens. Application examples include environments that require color images during the day but use monochrome images at night with or without supplemental IR lighting.
- Color: Features a high resolution (540 TVL) color camera with auto iris, simple day/night functions, and varifocal lens. For use in all general-purpose environments.

All cameras in the **IS20/IS21 Series** offer adaptive black stretch (ABS) to provide optimal image quality in dark areas by increasing the visibility in those areas without sacrificing the image quality in brighter areas. In addition, in some cameras the **IS20/IS21 Series**



IS20-DNV10S MODEL

features Super Dynamic 5 (SD5) technology, ensuring the best picture quality even in challenging environments. The Super Dynamic 5 (SD5) day/night WDR camera is equipped with auto back focus (ABF) and intelligent motion detection (i-VMD). The ABF feature automatically adjusts the cameras CCD position when installing or changing from color to black-white mode, saving time during setup and optimizing focus. The i-VMD feature is an intelligent built-in video motion detector that provides more efficient and reliable surveillance, while eliminating the loss of notification in vital scenes. Using advanced motion analytics provides the ability to accurately detect motion within a targeted area. The i-VMD analytics include three behaviors: motion detection, object abandonment/removal, and scene change detection.

The **IS20/IS21 Series** is shipped completely assembled, making installation fast and easy. To surface-mount the unit, remove it from the box, attach it to the mounting surface, and connect video and power. For recessed installations, use the supplied mounting bracket to install the unit inside a ceiling or wall.

The IS20/IS21 Series also features a complete line of optional mounting accessories. Optional pendant and wall mounts are available for all models, which allow the cameras to be adapted for a variety of installations. In addition, the flush mount kits allow surface mount cameras to be installed in a ceiling if the installation type should change after the original deployment.





TEHANICAL SPECIFICATIONS

CAMERA/OPTICS

	IS20/IS21-DWS Series Super Dynamic (SD5) Day/Night Wide Dynamic Range Models	IS20/IS21-DN Series True Day/Night Models	IS20/IS21-CH Series Color Models with Simple Day/Night	
Image Sensor	r 1/3-inch interline transfer CCD 1/3-inch interline transfer CCD		1/3-inch interline transfer CCD	
Effective Pixels				
NTSC	976 (H) x 494 (V)	768 (H) x 494 (V)	768 (H) x 494 (V)	
PAL	976 (H) x 582 (V)	752 (H) x 582 (V)	752 (H) x 582 (V)	
Scanning Area	0.19-inch (H) x 0.14-inch (V) (4.8 x 3.6 mm)	0.19-inch (H) x 0.15-inch (V) (4.9 x 3.7 mm)	0.19-inch (H) x 0.15-inch (V) (4.9 x 3.7 mm)	
Scanning System	2:1 interlace	2:1 interlace	2:1 interlace	
Scanning Lines				
NTSC	525 lines	525 lines	525 lines	
PAL	625 lines	625 lines	625 lines	
Scanning Frequency NTSC	Horizontal, 15.734 kHz Vertical, 59.94 Hz	Horizontal, 15.734 kHz Vertical, 59.94 Hz	Horizontal, 15.734 kHz Vertical, 59.94 Hz	
PAL	Horizontal, 15.625 kHz Vertical, 50.00 Hz	Horizontal, 15.625 kHz Vertical, 50.00 Hz	Horizontal, 15.625 kHz Vertical, 50.00 Hz	
Synchronization	Internal LL (phase adjustable power supply synchronization)	Internal	Internal	
Horizontal Resolution	650 TV lines, typical (color mode) 700 TV lines or more (B-W mode)	540 TV lines (color mode, at center) 570 TV lines (B-W mode)	540 TV lines (at center)	
Minimum Illumination	0.1 lux (color mode) 0.003 lux (sensitivity up x32) 0.01 lux (B-W mode) 0.0003 lux (sensitivity up x32)	0.06 lux (calar made) 0.05 lux (B-W mode)	0.6 lux (color mode) 0.4 lux (B-W mode)	
Dynamic Range	54 dB/128X	Adaptive Black Stretch	Adaptive Black Stretch	
Day/Night Type	IR filter removal	IR filter removal	Simple	
Video Output	1.0 Vp-p, NTSC/PAL composite, 75 ohms, BNC connector	1.0 Vp-p, NTSC/PAL composite, 75 ahms, BNC connector	1.0 Vp-p, NTSC/PAL composite, 75 chms, BNC connector	
White Balance	Auto Tracking White Balance/Automatic White Balance Control	Auto Tracking White Balance/Automatic White Balance Control	Auto Tracking White Balance/Automatic White Balance Control	
Signal-to-Noise Ratio	50 dB (equivalent to AGC Off, weight On)	50 dB (equivalent to AGC Off, weight On)	50 dB (equivalent to AGC Off, weight On)	
Lens	2X varifocal lens	3.6X varifocal lens	3.6X varifocal tens	
Focal Length	3.8 ~ 8.0 mm	2.8 ~ 10.0 mm	2.8 ~ 10.0 mm	
F-Number	f/1.4 (WIDE) to f/1.8 (TELE)	f/1.3 (WIDE) to f/3.1 (TELE)	f/1.3 (WIDE) to f/3.1 (TELE)	
Focus Range	∞ to 3.9 ft (1.2 m)	∞ to 3.9 ft (1.2 m)	∞ to 3.9 ft (1.2 m)	
Angle of View Horizontal Vertical	73.6° wide zoom; 35.6° telephoto zoom 53.4° wide zoom; 26.6° telephoto zoom	100.2° wide zoom; 27.4° telephoto zoom 73.3° wide zoom; 20.3° telephoto zoom	100.2° wide zoom; 27.4° telephoto zoom 73.3° wide zoom; 20.3° telephoto zoom	
Adjusting Angle Panning Range Tilting Range Rotation Range	±170° ±75° ±100°	+180° to -140° ±75° ±100°	+180° to -140° ±75° ±100°	

TECHNICAL SPECIFICATIONS

GENERAL

Construction Enclosure Bubble	ABS plastic Polycarbonate resin	
Finish	White	
Weight Super Dynamic 5 (SD5) WDR Models Surface Mount Flush Mount	Unit 1.98 lb (0.9 kg)* 3.53 lb (1.6 kg)'	Shipping 5 lb (1.85 kg)* 10 lb (4.39 kg) ^t
Color and Day/Night Models Surface Mount Flush Mount	0.95 lb (0.43 kg) 1.57 lb (0.71 kg)	2 lb (0.69 kg) 4 lb (1.78 kg)
Multilingual On-Screen Display	English, French, Spanish, German, Portuguese, Russian, Japanese	

^{*}The total surface mount weight includes 0.22 lb (0.1 kg) for the camera attachment.

ELECTRICAL

Power Source Super Dynamic 5		
(SD5) WDR Models	NTSC	PAL
	24 VAC, 60 Hz	24 VAC, 50 Hz
	12 VDC, 280 mA	12 VDC, 280 mA
Color and Day/Night		
Models	NTSC	PAL
	24 VAC, 60 Hz	24 VAC, 50 Hz
	12 VDC, 220 mA	12 VDC, 220 mA
Power Consumption		
Super Dynamic 5		
(SD5) WDR Models	NTSC	PAL
	3.4 W	3.4 W
Color and Day/Night		
Models	NTSC	PAL
	2.7 W	2.7 W

ENVIRONMENTAL

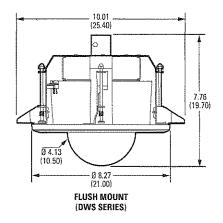
Environment Indoor

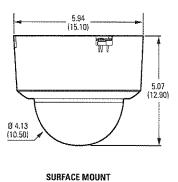
Ambient Temperature 14° to 122°F (-10° to 50°C)

Ambient Humidity Less than 90%

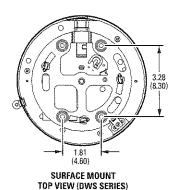
CERTIFICATIONS/RATINGS/PATENTS

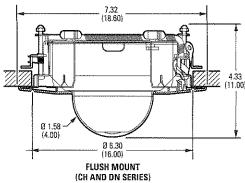
- CE, Class AFCC, Class A
- UL/cUL ListedC-Tick

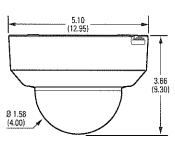




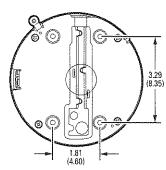
(DWS SERIES)







SURFACE MOUNT (CH AND DN SERIES)



SURFACE MOUNT TOP VIEW (CH AND DN SERIES)

¹The total flush mount weight includes 1.54 lb (0.7 kg) for ceiling mount bracket assembly.

MODELS

Camera Type	Mount Type	Bubble	NTSC	PAL
Super Dynamic 5 (SD5) Day/Night WDR (DWS Series)	Surface	Clear	IS21-DWSV8S	IS21-DWSV8SX
		Smoke	IS20-DWSV8S	IS20-DWSV8SX
	Flush	Clear	IS21-DWSV8F	IS21-DWSV8FX
		Smoke	IS20-DWSV8F	IS20-DW\$V8FX
	Surface	Clear	IS21-DNV10S	IS21-DNV10SX
Day/Night		Smoke	IS20-DNV10S	IS20-DNV10SX
(DN Series)	Flush	Clear	IS21-DNV10F	IS21-DNV10FX
		Smoke	IS20-DNV10F	IS20-DNV10FX
	Surface	Clear	IS21-CHV10S	IS21-CHV10SX
Color		Smoke	IS20-CHV10S	IS20-CHV10SX
(CH Series)	Flush	Clear	IS21-CHV10F	IS21-CHV10FX
		Smoke	IS20-CHV10F	IS20-CHV10FX

RECOMMENDED MOUNTS

IS20-P Pendant mount, indoor; compatible with Color

and Day/Night models

iS20-WM Wall mount, indoor; compatible with Color

and Day/Night models

IS20DWS-P Pendant mount, indoor; compatible with

Super Dynamic 5 (SD5) day/night WDR

models

IS20DWS-WM Wall mount, indoor; compatible with Super

Dynamic 5 (SD5) day/night WDR models

iS20-FK Flush mount kit; compatible with surface

mount Color and Day/Night models

IS20DWS-FK Flush mount, indoor; compatible with Super

Dynamic 5 (SD5) day/night WDR models

IS20-AP Adapter plate for a 4S electrical box;

compatible with all models

RECOMMENDED POWER SUPPLIES

TF2000 Power supply for one 24 VAC camera, 20 VA
MCS Series Multiple 24 VAC camera power supply, indoor

OPTIONAL ACCESSORIES

TW3001PC Passive twisted wire transmission for use in

unshielded twisted pair (UTP) installations

13VD15-50 15 to 50 mm lens; compatible with DWS

models only

IS50/IS51 Series Camclosure® 2 Camera System

RUGGED OUTDOOR MINI DOME, SURFACE AND FLUSH MOUNT

Product Features

- Vandal-Resistant Heavy Duty Outdoor Enclosure with Camera and Lens
- 3 Camera Options
 - Super Dynamic 5 (SD5)™ Day/Night Wide Dynamic Range (WDR)
 - Day/Night High Resolution
 - High Resolution Color
- Varifocal Lens
- · Shipped Completely Assembled, Easy to Install
- 24 VAC or 12 VDC Operation, Autosensing
- Manual, 3-Axis (Pan/Tilt/Rotation) Positioning Allows Adjustment for Optimum Camera Rotation and Placement
- Service Connector for Video Output
- Available in Surface or Flush Mount Models with Smoked or Clear Domes
- · Built-in Heater for Outdoor Environments

The IS50/IS51 Series Camclosure® 2 Camera System integrates a camera and lens package into a small, versatile rugged enclosure that can be mounted directly to, or recessed into, a ceiling or wall. The IS50/IS51 Series features a three-axis camera and lens positioning system that is capable of a wide variety of pan and tilt angles.

The **IS50/IS51 Series** offers three high resolution camera options suitable for a variety of outdoor environments:

- Super Dynamic 5 (SD5)[™] day/night wide dynamic range (WDR): Features a high resolution (650 TVL) color camera with auto iris, varifocal lens, and auto back focus. Application examples include environments with difficult lighting that require extremely high sensitivity and dynamic range.
- True day/night: Features a high resolution (540 TVL) color camera with auto iris and varifocal lens. Application examples include environments that require color images during the day but use monochrome images at night with or without supplemental IR lighting.
- Color: Features a high resolution (540 TVL) color camera with auto iris, simple day/night functions, and varifocal lens. For use in all general-purpose environments.

All cameras in the **IS50/IS51 Series** offer adaptive black stretch (ABS) to provide optimal image quality in dark areas by increasing the visibility in those areas without sacrificing the image quality in brighter areas. In addition, in some cameras the **IS50/IS51 Series** features Super Dynamic 5 (SD5) technology, ensuring the best picture



IS51-DWSV8S MODEL

- Dehumidifier to Prevent Condensation (DWS Series Only)
- Auto Image Stabilizer to Compensate for External Vibration (DWS Series Only)

quality even in challenging environments. The Super Dynamic 5 (SD5) day/night WDR camera is equipped with auto back focus (ABF) and intelligent motion detection (i-VMD). The ABF feature automatically adjusts the cameras CCD position when installing or changing from color to black-white mode, saving time during setup and optimizing focus. The i-VMD feature is an intelligent built-in video motion detector that provides more efficient and reliable surveillance, while eliminating the loss of notification in vital scenes. Using advanced motion analytics provides the ability to accurately detect motion within a targeted area. The i-VMD analytics include three behaviors: motion detection, object abandonment/removal, and scene change detection.

The **IS50/IS51 Series** is shipped completely assembled, making installation fast and easy. To surface-mount the unit, remove it from the box, attach it to the mounting surface, and connect video and power. For recessed installations, use the supplied mounting bracket to install the unit inside a ceiling or wall.

The IS50/IS51 Series also features a complete line of optional mounting accessories. The IS50-P pendant mount allows the IS50/IS51 surface mount cameras to be adapted for pendant installations. The IS50-P can also be combined with the SWM-SR compact wall mount for wall mount installations. In addition, the IS50-FK flush mount kit allows a surface mount unit to be installed in a ceiling if the installation type should change after the original deployment.





TERINICAL SPERFICATIONS

CAMERA/OPTICS

	IS50/IS51-DWS Series Super Dynamic (SD5) Day/Night Wide Dynamic Range Models	IS50/IS51-DN Series True Day/Night Models	IS50/IS51-CH Series Color Models with Simple Day/Night	
Image Sensor	nsor 1/3-inch interline transfer CCD 1/3-inch interline transfer CCD		1/3-inch interline transfer CCD	
Effective Pixels NTSC PAL	976 (H) x 494 (V) 976 (H) x 582 (V)	768 (H) x 494 (V) 752 (H) x 582 (V)	768 (H) × 494 (V) 752 (H) × 582 (V)	
Scanning Area	0.19-inch (H) x 0.14-inch (V) (4.8 x 3.6 mm)	0.19-inch (H) x 0.15-inch (V) (4.9 x 3.7 mm)	0.19-inch (H) x 0.15-inch (V) (4.9 x 3.7 mm)	
Scanning System	2:1 interlace	2:1 interlace	2:1 interlace	
Scanning Lines NTSC PAL	525 lines 625 lines	525 lines 625 lines	525 lines 625 lines	
Scanning Frequency NTSC	Horizontal, 15.734 kHz Vertical, 59.94 Hz	Horizontal, 15.734 kHz Vertical, 59.94 Hz	Horizontal, 15.734 kHz Vertical, 59.94 Hz	
PAL	Horizontal, 15.625 kHz Vertical, 50.00 Hz	Horizontal, 15.625 kHz Vertical, 50.00 Hz	Horizontal, 15.625 kHz Vertical, 50.00 Hz	
Synchronization	Internal Li. (phase adjustable power supply synchronization)	Internal	internal	
Horizontal Resolution	650 TV lines, typical (color mode) 700 TV lines or more (B-W mode)	540 TV lines (color mode, at center) 570 TV lines (B-W mode)	540 TV lines (at center)	
Minimum Illumination	0.1 lux (color mode) 0.003 lux (sensitivity up x32) 0.01 lux (B-W mode) 0.0003 lux (sensitivity up x32)	0.06 lux (color mode) 0.05 lux (B-W mode)	0.6 lux (color mode) 0.4 lux (B-W mode)	
Dynamic Range	54 dB/128X	Adaptive Black Stretch	Adaptive Black Stretch	
Day/Night Type	IR filter removal	IR filter removal	Simple	
Video Output	1.0 Vp-p, NTSC/PAL composite, 75 ohms, BNC connector	1.0 Vp-p, NTSC/PAL composite, 75 ohms, BNC connector	1.0 Vp-p, NTSC/PAL composite, 75 ohms, BNC connector	
White Balance	Auto Tracking White Balance/ Automatic White Balance Control	Auto Tracking White Balance/ Automatic White Balance Control	Auto Tracking White Balance/ Automatic White Balance Control	
Signal-to-Noise Ratio	50 dB (equivalent to AGC Off, weight On)	50 dB (equivalent to AGC Off, weight On)	50 dB (equivalent to AGC Off, weight 0n)	
Lens	2X varifocal lens	3.6X varifocal lens	3.6X varifocal lens	
Focal Length	3.8 ~ 8.0 mm	2.8 ~ 10.0 mm	2.8 ~ 10.0 mm	
F-Number	f/1.4 (WIDE) to f/1.8 (TELE)	f/1.3 (WIDE) ta f/3.1 (TELE)	f/1.3 (WIDE) to f/3.1 (TELE)	
Focus Range	∞ to 3.9 ft (1.2 m)	∞ to 3.9 ft (1.2 m)	∞ to 3.9 ft (1.2 m)	
Angle of View Horizontal Vertical	73.6° wide zoom; 35.6° telephoto zoom 53.4° wide zoom; 26.6° telephoto zoom	100.2° wide zoom; 27.4° telephoto zoom 73.3° wide zoom; 20.3° telephoto zoom	100.2° wide zoom; 27.4° telephoto zoom 73.3° wide zoom; 20.3° telephoto zoom	
Adjusting Angle Panning Range Tilting Range Rotation Range	±170° ±75° ±100°	+180° to -140° ±75° ±100°	+180° to -140° ±75° ±100°	

TECHNICAL SPECIFICATIONS

GENERAL

Construction Enclosure Bubble

Aluminum die cast Polycarbonate resin Light gray

Finish

Weight

Super Dynamic 5 (SD5) WDR Models Surface Mount

Unit 3.76 lb (1.71 kg)* 4.53 lb (2.05 kg)

Shipping 6 lb (2.70 kg)* 11 lb (4.89 kg)1

Flush Mount Color and Day/Night Models Surface Mount

3.20 lb (1.45 kg) 3.97 lb (1.80 kg) Flush Mount

6 lb (2.40 kg) 11 lb (4.59 kg)

Multilingual On-Screen Display

English, French, Spanish, German, Portuguese, Russian, Japanese

ELECTRICAL

Power Source

Super Dynamic 5 (SD5) WDR Models

NTSC 24 VAC, 60 Hz 12 VDC‡, 280 mA

24 VAC, 50 Hz 12 VDCt, 280 mA

Color and Day/Night Models

NTSC 24 VAC, 60 Hz 12 VDC[‡], 220 mA PAL 24 VAC, 50 Hz 12 VDC+, 220 mA

Power Consumption Super Dynamic 5

(SD5) WDR Models Without Heater With Heater

NTSC 3.4 W 14 W

NTSC

2.9 W

13.1 W

Outdoor

Color and Day/Night Models Without Heater

PAL 2.9 W 13.1 W

PAL

3.4 W

14 W

ENVIRONMENTAL

With Heater

Environment

Ambient Temperature Without Heater

With Heater

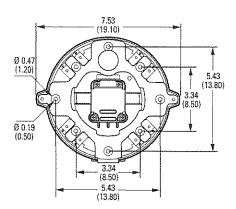
Ambient Humidity Impact Resistance 14° to 122°F (-10° to +50°C)

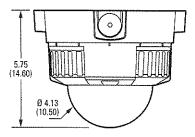
-22° to 122°F (-30° to +50°C) Less than 90%

IEC 60068-2-75 Test Eh (50J)

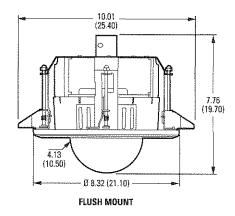
CERTIFICATIONS/RATINGS/PATENTS

- CE, Class AFCC, Class A
- UL/cUL Listed
- · C-Tick
- Meets IP66 standards, IEC60529





SURFACE MOUNT



NOTE: VALUES IN PARENTHESES ARE CENTIMETERS; ALL OTHERS ARE INCHES.

^{*}The total surface mount weight includes 0.22 lb (0.1 kg) for the camera attachment,

The total flush mount weight includes 1.54 lb (0.7 kg) for ceiling mount bracket assembly.

When using 12 VDC power supply, the heater is not available.

MODELS

Camera Type	Mount Type	Bubble	NTSC	PAL
Super Dynamic 5 (SD5) Day/Night WDR (DWS Series)	Surface	Clear	IS51-DWSV8S	IS51-DWSV8SX
		Smoke	IS50-DW\$V8S	IS50-DWSV8SX
	Flush	Clear	IS51-DWSV8F	IS51-DWSV8FX
		Smoke	IS50-DWSV8F	IS50-DWSV8FX
	Surface	Clear	IS51-DNV10S	IS51-DNV10SX
Day/Night		Smoke	IS50-DNV10S	IS50-DNV10SX
(DN Series)	Flush	Clear	IS51-DNV10F	IS51-DNV10FX
		Smoke	IS50-DNV10F	IS50-DNV10FX
	Surface	Clear	IS51-CHV10S	IS51-CHV10SX
Color		Smoke	IS50-CHV10S	IS50-CHV10SX
(CH Series)	Flush	Clear	IS51-CHV10F	IS51-CHV10FX
		Smoke	IS50-CHV10F	IS50-CHV10FX

RECOMMENDED MOUNTS

SWM-SR

IS50-P Pendant mount, outdoor; compatible with all

IS50-CM Corner mount, indoor or outdoor; compatible

with all models

Compact wall mount, light gray finish; can be used with IS50-P for wall-mount installations;

can also be adapted for corner or pole

applications

WMVE-SR Wall mount, light gray; can be used with

IS50-P for wall-mount installations that require increased vandal resistance or surface

mount conduit

1\$50-FK Flush mount kit; compatible with surface

mount models only

RECOMMENDED POWER SUPPLIES

TF2000 Power supply for one 24 VAC camera, 20 VA Multiple 24 VAC camera power supply, indoor MCS Series WCS Series Single/multiple 24 VAC camera power supply,

OPTIONAL ACCESSORIES

TW3001PC Passive twisted wire transmission for use in

unshielded twisted pair (UTP) installations

13VD15-50 15 to 50 mm lens; compatible with DWS

models only

KBD300A Keyboard

FULL-FUNCTIONALITY, FIXED/VARIABLE SPEED, PTZ CONTROL

Product Features

- Keyboard to Control:
 - CM6700/CM6800/CM9760-SAT/CM9700 Matrix Switchers
 - DX8100 Series Digital Video Recorder
 - Genex® Multiplexer When Used with CM6700 and CM6800
 - Up to 16 Receivers Directly from Keyboard (such as Spectra®, Esprit®, and ExSite®)
- Automatic Recognition of CM6700/CM6800 and Direct P Modes
- Joystick Control of PTZ Functions
- Preset Position and Pattern Control

The **KBD300A** keyboard is a full-function, desktop keyboard controller that can be used in a variety of applications.

A barrel-type joystick provides precise pan and tilt control of fixed speed and variable speed receivers. Twisting the joystick clockwise or counterclockwise zooms the lens in or out.

Keys select cameras and monitors; operate presets, patterns, auxiliaries, and sequences; open and close the iris; zoom and focus the lens; and start and stop auto, frame, and random scanning.

The keyboard can be used in six modes of operation: CM6700/CM6800/CM9760-SAT Mode, Direct P, Direct D, CM6700 ASCII, CM6800 ASCII/DX8100, and CM9760-MDA. The **KBD300A** keyboard automatically recognizes CM6700/CM6800 and Direct P modes. The **KBD300A** must be operated in CM6700 ASCII mode when used with the DX4500/DX4600 Series DVRs and the Digital Sentry® DS ControlPoint server or remote client. The **KBD300A** keyboard must run firmware 5.0 or later to operate in CM6700 ASCII mode

In the first two modes, the keyboard is plugged into a CM6700, CM6800, or CM9760-SAT switcher/controller unit (SCU) and is used to program and operate the SCU. The maximum number of keyboards per unit is eight (CM6700 and CM6800-32X6), sixteen (CM6800-48X8, CM6800E-48X8, and CM6800-96X16) or four (CM9760-SAT). In CM6700/CM6800 applications, the keyboard can control cameras connected directly to the SCU or through an MX4000 Series Genex® multiplexer.

If you do not need all the features of the CM6700/CM6800 SCU but want the same keyboard functionality, then one keyboard can be wired directly to camera receivers in Direct P or Direct D mode (KBD-KIT is required).



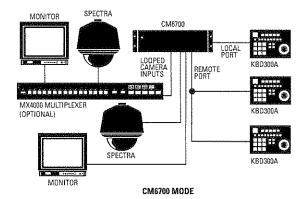
- Auxiliary Operation
- Auto/Random/Frame Scanning
- Programming of CM6700/CM6800/CM9760-SAT/CM9760-MDA

Up to 16 receivers can be wired to a keyboard; however, a switcher such as an MS500 or VA6100 is required to route video to the monitor. Direct P or Direct D mode uses 2-wire control of receivers using Pelco P or Pelco D protocols.

The **KBD300A** keyboard can also be used for on-screen programming of the CM9760-MDA master distribution amplifier.

When used with the CM9760-DMR data manager, up to four **KBD300A** keyboards can be used to control a single Pelco P or Pelco D protocol device such as a Spectra® dome or an Esprit®/ExSite® positioning system.

The optional KBD300USBKIT is required to connect the KBD300A keyboard to the DX4500/DX4600. The KBD300USBKIT is also required to control certain functions of DS ControlPoint software.





Carrinollistasiaidations

MODEL

KBD300A Desktop keyboard with full switching and

programming capabilities, plus joystick

control of PTZ functions

ELECTRICAL

Input Voltage 12 VAC or ±12 VDC

Power Consumption 5 W

Keyboard Connector RJ-45, 8-pin, modular (female)

Keyboard Communication

CM6700/CM6800/CM9760-SAT Mode

Interface RS-485 Protocol Pelco ASCII Baud 9600

Communication

Parameters 8 data bits, odd parity, 1 stop bit

CM6700 ASCII Mode

interface RS-422 Protocol Peico ASCII Baud 9600

Communication

Parameters 8 data bits, odd parity, 1 stop bit

CM6800 ASCII Mode/DX8100

Interface RS-485
Protocol Pelco ASCII
Baud 9600

Communication

Parameters 8 data bits, odd parity, 1 stop bit

Direct P Mode

Interface RS-485 Protocol Pelco P Baud 4800

Communication

Parameters 8 data bits, no parity, 1 stop bit

Direct D Mode

Interface RS-485 Protocol Pelco D Baud 2400

Communication

Parameters 8 data bits, no parity, 1 stop bit

GENERAL

Keyboard Keypad Electromechanical

Joystick 3-axis, vector-solving with twisting,

return-to-center head

Display Red LED, 7-segment, 2 cells
Dimensions 2.25" H x 9.50" W x 7.125" D
(5.72 x 24.13 x 18.10 cm)

Weights

Unit 2.5 lb (1.12 kg) Shipping 5 lb (2.26 kg)

ENVIRONMENTAL

Ambient Operating

Temperature 20° to 120° F (-7° to 49°C)
Humidity 10% to 90%, noncondensing

CERTIFICATIONS/PATENTS

- CE, Class B
- FCC, Class B
- UL/cUL Listed
- C-Tick
- U.S. Patent D-464,654

SUPPLIED ACCESSORIES

25-foot (7.6 m) RJ-45 data cable

OPTIONAL ACCESSORIES

KBDKIT Remote keyboard wiring kit. Required if

connecting KBD300A keyboards to the Remote Keyboard Port on the SCU (CM6700/CM6800 Mode) or when using a single keyboard in Direct Mode applications. Includes two RJ-45 wall blocks and one 120 VAC to 12 VAC transformer. Maximum cable distance for RS-422/RS-485 communication over 24-gauge wire is 4,000 feet (1,219 m). Use shielded twisted pairs cable that meets basic requirements for RS-422/RS-485 applications. (One wall block and transformer

required for each keyboard.)

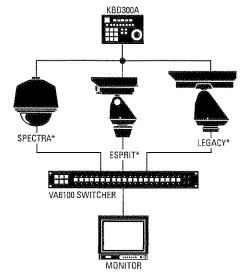
KBDKIT-X Same as KBOKIT except includes 230 VAC to

12 VAC transformer.

KBD300USBKIT Wiring kit to attach a KBD300A to a USB port

on either the DX4500/DX4600 or DS ControlPoint on the DS DVR or remote client. Includes: KBDKIT/KBDKIT-X wiring kit (keyboard power supply and RJ-45 junction box), PV140 RS-232 to RS-422 (DB9 connector) converter and power supply (included but not used), and USB to RS-232C

adapter cable.



* SPECTRA AND ESPRIT HAVE BUILT-IN RECEIVERS. LEGACY REQUIRES LRD41C SERIES RECEIVER.

DIRECT MODE

3500 Pelco Way, Clovis, California 93612-5699 USA **USA & Canada** Tel: {800} 289-9100 • FAX: {800} 289-9150 **International** Tel: +1 {559} 292-1981 • FAX: +1 (559) 348-1120 **www.pelco.com**

PS20 Series Scanner INDOOR/OUTDOOR, MEDIUM DUTY

Product Features

- High Reliability: No Worm Gears to Adjust, No Chain to Lubricate, No Gear Head on Motor
- Scans Past 360°, Eliminates Blind Spots
- 2-Year Unlimited Continuous Duty Warranty
- · Auto and Random Scan Operation
- 3 Speed Settings
- * 120 VAC and 24 VAC Models
- · Upright or Inverted Operation
- · Magnetic Limit Stops Microprocessor Controlled
- · Quiet, Smooth Operation
- · Completely Sealed Unit, Meets NEMA Type 4 Standards
- Maximum Load 35 lb (15.75 kg)

Backed by a two-year unlimited continuous duty warranty, Pelco's **PS20 Series** scanner is perfect for indoor and outdoor installations. Ruggedly constructed and completely sealed, the scanner features stepper motor technology for increased reliability; three speed settings (3, 6, and 12 degrees per second) selectable at installation; and microprocessor-controlled magnetic limit stops for quiet smooth operation.

The **PS20** is ideal for a wide array of surveillance installations and reduces the need for numerous fixed cameras. Designed to operate with loads up to 35 pounds (15.75 kg), this medium duty scanner is easy to install and can be mounted to any flat surface in an upright or inverted position.

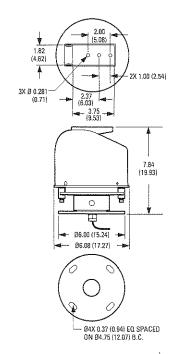
The scanner is capable of pan rotation past 360 degrees, to 380 degrees, for a complete panoramic view. The unit also has a manually adjustable tilt table for viewing from 0 (zero) degrees horizontal to 65 degrees tilt position.

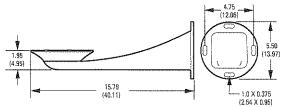
The **PS20** scanner is capable of auto and random scan operation without the need for a controller. Connected to a Pelco MPTAZ Series control, the scanner can operate continuously, randomly, and manually. The **PS20 Series** scanner is compatible with all Pelco scanner and pan/tilt hard wire controllers.

The 24 VAC **PS20** scanner is available in easy-to-order ScannerPak systems. Systems include an EH3512-HD enclosure, sun shroud, wall mount, and choice of pre-installed camera configuration (camera and lens). Refer to the ScannerPak Selection Guide for system model numbers.



PS20 WITH EH3512-2HD, SUN SHROUD, AND PSWM





NOTE: VALUES IN PARENTHESES ARE CENTIMETERS; ALL OTHERS ARE INCHES.



FERRICAL SPECIFICATIONS

MODELS

PS20 Medium duty scanner, 120 VAC PS20-24 Medium duty scanner, 24 VAC

MECHANICAL

Pan 0 to 380° movement in horizontal plane

Speed 3°, 6°, and 12° per sec
Maximum Load 35 lb (15.7 kg) centered
Operation Upright or inverted
Bearings Heavy duty ball bearings
Overload Protection Thermal protected

ELECTRICAL

Input Voltage

Motors

PS20

PS20 95 to 130 VAC PS20-24 22 to 28 VAC

Power Requirements

PS20 0.25A (30 VA) at 120 VAC
PS20-24 0.75A (20 VA) at 24 VAC
Connectors Wire nuts (provided),
butt splice (not provided)

Stepper motor, continuous duty, instantaneous reversing

Limit Switches Auto scan switching; external adjustment
Conductors 7, unshielded (functions: left, right, auto,
motor common, safety ground, AC HI, AC LO)

Maximum Operating Distances

Cable Size

Cable Size Maximum Distance 20 AWG (0.5 mm²) 2,300 ft (701 m)

18 AWG (1.0 mm²) 3,700 ft (1,127 m)

16 AWG (1.5 mm²) 5,900 ft (1,798 m)

PS24 20 AWG (0.5 mm²) 5,600 ft (1,706 m)

18 AWG (1.0 mm²) 9,000 ft (2,743 m) 16 AWG (1.5 mm²) 14,300 ft (4,368 m) **GENERAL**

Construction Aluminum

Finish Gray polyester powder coat

Environment Indoor/outdoor;

-10° to 120°F (-23° to 49°C)

Unit Weight 9.9 lb (4.5 kg) Shipping Weight 12 lb (5.4 kg)

CERTIFICATIONS/RATINGS/PATENTS

CE, Class AFCC, Class B

UL/cUL Listed

Meets NEMA Type 4, IP66 standards

U.S. Patent D473,873S

RECOMMENDED CONTROLS

MPS524DT Desktop control for PS20-24 scanner
MPTAZ Series Desktop scanner and zoom lens control

capable of auto/random scan

RECOMMENDED ENCLOSURE

EH3010/EH3014 Small, indoor enclosure EH4010/EH4014 Small, indoor enclosure

EH3508/EH3512 Small, indoor/outdoor enclosure

RECOMMENDED MOUNTS

PSWM Wall mount for PS20 Series
PM2000, PM2010 Universal ceiling/pedestal mount

ECM100 Corner mount; use with PSWM wall mount EPM Pole mount; use with PSWM wall mount

SCANNERPAK SELECTION GUIDE

Available ScannerPak systems are listed below. Refer to each component's specification sheet for details about each product.

Scanner	Camera	Lens	Enclosure	Accessories	Model Number
24 VAC (PS20-24)	540 TVL, NTSC (C10CH-6)	Varifocal (13VA3-8)	indoor/outdoor with 24 VAC heater-defroster (EH3512-2HD)	Sun shield (SS3512) Wall mount (PSWM)	PS20-2AJV3W
24 VAC (PS20-24)	480 TVL, NTSC (CC3701H-2)	Varifocal, auto iris (13VD3-8)	Indoor/outdoor with 24 VAC heater-defroster (EH3512-2HD)	Sun shield (SS3512) Wall mount (PSWM)	PS20-2CBV3AW
24 VAC (PS20-24)	480 TVL, NTSC (CC3701H-2)	Varifocal (13VA3-8)	Indoor/outdoor with 24 VAC heater-defroster (EH3512-2HD)	Sun shield (SS3512) Wall mount (PSWM)	PS20-2CBV3W
24 VAC (PS20-24)	480 TVL, PAL (CC3701H-2X)	Varifocal (13VA3-8)	Indoor/outdoor with 24 VAC heater-defroster (EH3512-2HD)	Sun shield (SS3512) Wall mount (PSWM)	PS20-2CDV3W

PT570P/PT570-24P Pan/Tilt

OUTDOOR, MEDIUM DUTY

Product Features

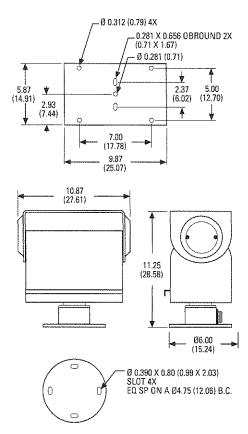
- · Easily Serviced
- · Inverted Operation
- External Limit Stops
- Outdoor Applications
- Adjustable Worm-Gear Final Drive
- 120 VAC or 24 VAC Operation
- Capable of Auto/Random Scan Operation when Used with Appropriate Control
- Maximum Load 40 lb (18.14 kg)

The **PT570P** and the **PT570-24P** are medium duty outdoor pan/tilts capable of handling loads up to 40 pounds (18.14 kg). Both units feature rugged worm-gear final drives to minimize backlash and prevent wind drift. The drives are fully adjustable for wear.

Control voltages are 120 VAC for the **PT570P** and 24 VAC for the **PT570-24P**. Construction is of aluminum, and the units are completely sealed for all-weather use. The **PT570P** and **PT570-24P** are recommended for use with our EH4700 Series environmental enclosures.

An optional factory installed heater is available to allow operation to $-50^{\circ}F$ ($-45^{\circ}C$).





NOTE: VALUES IN PARENTHESES ARE CENTIMETERS; ALL OTHERS ARE INCHES.



REFERENCES SERVICES

MODELS

PT570P Medium duty pan/tilt, 120 VAC

PT570P/PP Medium duty pan/tilt with presets, 120 VAC

PT570-24P Medium duty pan/tilt, 24 VAC

PT570-24P/PP Medium duty pan/tilt with presets, 24 VAC

ELECTRICAL

Input Voltage

PT570P, PT570P/PP 120 VAC, 50/60 Hz PT570-24P, PT570-24P/PP 24 VAC, 50/60 Hz

Pan/Tilt Power Requirements

PT570P, PT570P/PP

0.18 A (21.6 VA) Running 0.27 A (32.4 VA) Starting

PT570-24P, PT570-24P/PP

0.9 A (21.6 VA) Running Starting 1.35 A (32.4 VA)

Connectors AMP CPC type (mate supplied)

Two-phase induction type, instantaneous Motors

reversing

Limit Switches 5 A each (pan and tilt); external adjustment

Conductor Requirements 6 or 7, unshielded (functions: left, right, up, down, motor common, safety ground); no

additional conductors for auto scan when used with solid-state control; PP option requires 4 additional conductors; HB option

requires 2 additional conductors

Maximum Operating Distances*

PT570P and PT570P/PP

	Cable Size	Maximum Distance
6 Conductors	20 AWG (0.5mm ²)	1,045 ft (319 m)
	18 AWG (1.0mm²)	1,665 ft (507 m)
	16 AWG (1.5mm²)	2,640 ft (805 m)
7 Conductors ¹	20 AWG (0.5mm²)	2,080 ft (634 m)
	18 AWG (1.0mm²)	3,330 ft (1,015 m)
	16 AWG (1.5mm²)	5,285 ft (1,611 m)

PT570-24P and PT570-24P/PP

	Cable Size	Maximum Distance
6 Conductors	20 AWG (0.5mm²)	40 ft (12 m)
	18 AWG (1.0mm ²)	65 ft (20 m)
	16 AWG (1.5mm²)	110 ft (34 m)
7 Conductors ¹	20 AWG (0.5mm ²)	85 ft (26 m)
	18 AWG (1.0mm²)	135 ft (41 m)
	16 AWG (1.5mm²)	220 ft (67 m)

^{*}Distances are calculated with both motors (pan and tilt) running and assuming a 10% voltage drop.

MECHANICAL

Pan 0 to 355° movement in horizontal plane

Speed 6º/sec ±1°

Torque 10 ft-lb with specified voltage Tilt ±90° movement in vertical plane

Speed 3°/sec ±0.5°

Torque 20 ft-lb with specified voltage

40 lb (18.1418.14 kg) at 5 inches (12.7 cm) Maximum Load from tilt table surface to center of gravity

Adjustable worm-gear final drive to prevent Gearing

drift and minimize backlash

Bearings

Pan Heavy-duty ball bearings Tilt Oilite bronze bushing Braking Mechanical friction-type Duty Cycle 50% duty cycle; 30 minute rating

GENERAL

Construction Aluminum plate; all internal parts corrosion

protected

Finish Gray polyester powder coat

Environment Outdoor;

-10° to 120°F (-23° to 49°C)

Unit Weight 22 lb (9.9 kg) Shipping Weight 25 lb (11.5 kg)

CERTIFICATIONS/RATINGS

CE, Class B (PT570-24P, PT570-24P/PP)

UL Listed

· Meets NEMA Type 3R standards

OPTIONAL ACCESSORY

HB/570 Blanket heater in cover, 75 W; allows

operation to -50°F (-45°C);

120 VAC, 50/60 Hz (factory installed option)

RECOMMENDED CONTROLS

Coaxitron® or Matrix Refer to individual specification sheets for

MPT24DT Desktop control for 24 VAC pan/tilt

MPTAZ Series Desktop pan/tilt and zoom lens control with

auto/random scan

RECOMMENDED ENCLOSURE

EH4700 Series Environmental enclosure

RECOMMENDED MOUNTS

PA2000 Adapter plate; required when using WM2000 PM2000, PM2010 Ceiling/pedestal mount; maximum load 125 lb

(56.7 kg)

ST1 Support strut; use with WM2000/PM2000/

PM2010

WM2000 Wall mount; maximum load 75 lb (34 kg)

3500 Pelco Way, Clovis, California 93612-5699 USA USA & Canada Tel: (800) 289-9100 • FAX: (800) 289-9150 International Tel: +1 (559) 292-1981 • FAX: +1 (559) 348-1120 www.pelco.com

[†] Using 2-wire motor common.

RCS Series Rack Power Supply

MULTIPLE RACK MOUNTED POWER SUPPLY, INDOOR

Product Features

- 1RU Models to Fit Standard EIA 19" Rack
- Removable Terminal Strips With Clamo-Down Connectors
- · Individual Green LED Indicators for Each Output
- . 26 VAC Available with 8, 16, or 32 Outputs
- 13" Deep Units for Easy Back Access
- · Fuses or Self-Resetting Circuit Breakers on Each Output
- · Removable 3-Wire Grounded AC Line Cord
- · Class 2 Rated (breaker models)
- · Optional Locking Face Plate

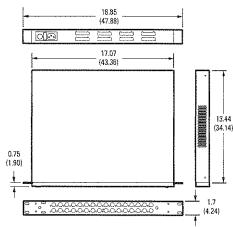


RCS32F20 MODEL SHOWN WITHOUT OPTIONAL LOCKING FACE PLATE

The **RCS Series** rack power supply is designed to decrease installation time, provide better accessibility to outputs, offers quick power connections, and saves space. Designed for a standard EIA 19-inch rack for powering up to 32 units, the **RCS Series** saves valuable rack space as a 1RU (one rack unit) model.

Removable terminal strips with clamp-down connectors are made for quicker power up and power down of the units. These terminal strips lock tightly to hold wire in place; but they can be easily removed for a simpler installation. This rack mount power supply features a green LED front panel display to indicate individual output status. The rack mount enclosure is 13 inches deep for easy access and serviceability. The **RCS Series** delivers maximum flexibility for large multi-camera projects by providing 26 volt alternating current outputs. All models include a main LED power status indicator, and a removable three-wire grounded AC line cord.

Models are included for both fuse or self-resetting circuit breakers on each output with 5,10, or 20 amp capacities. Individual fuse holders are easily accessible from the front of the unit. Breaker models include self-resetting individual breakers for each output. All models are single phase and operate on either 50 or 60 Hz.



(MEASUREMENTS INCLUDE OPTIONAL LOCKING FACE PLATE)

NOTE: VALUES IN PARENTHESES ARE CENTIMETERS; ALL OTHERS ARE INCHES.









MODELS

Outputs	Amps	Breaker	Fuse
8	5	RCS8B5	RCS8F5
16	10	RCS16B10	RCS16F10
16	20	RCS16B20	RCS16F20
32	20	RCS32B20	RCS32F20

OPTIONAL ACCESSORIES

RCSFP Optional Locking Face Plate (sold separately)

FRONT PANEL

Fuse Models Removable fuse holders

All Models Input power LED indicator, individual output

LED indicators

PHYSICAL

Mounting 1RU, standard EIA 19" rack
Dimensions 13.44" D x 18.85" W x 1.7" H

(34.14 x 47.88 x 4.24 cm)

Environment Indoor

Operating Temperature 50° to 120° F (10° to 49° C)
Power Input Universal 3-prong power connector
Included Power Cable 1 standard (117 VAC, 3 prongs,

6 ft or 1.8 m) cable

Construction Steel cabinet

Finish Charcoal black polyester powder coat

Weights Unit and shipping weights

Shipping Weight Model Unit Weight RCS8F5 11.770 lb (5.340 kg) 14 lb (7 kg) 14 lb (7 kg) RCS8B5 11.655 lb (5.230 kg) RCS16F10 14.925 lb (6.770 kg) 17 lb (8 kg) RCS16B10 14.505 (b (6.580 kg) 17 lb (8 kg) 21.000 lb (9.525 kg) RCS16F20 23 lb (11 kg) RCS16B20 20.730 lb (9.403 kg) 23 lb (11 kg) RCS32F20 21.715 lb (9.850 kg) 24 lb (11 kg) RCS32B20 21.335 lb (9.674 kg) 24 lb (11 kg)

PRODUCT CAPACITY

This chart contains a partial list of compatible products and the number of units that may be powered by each power supply. Capacity is based on the VA rating of each listed product.

	_	Power Supp	ly Model	
Product	RCS8F5/ RCS8B5 130VA	RCS16F10/ RCS16B10 260VA	RCS16F20/ RCS16B20 520VA	RCS32F20/ RCS32B20 520VA
Fixed Camera 12VA	8*	16*	16*	32*
Indoor Spectra® 25VA	5	10	16*	20
Esprit® 70VA	1	3	7	7

^{*}The number of cameras is limited by the number of output channels, not by the power output.

POWER

Power Consumption

Model	Input Voltage	Input Fuse	Maximum Load	BTU/H*
RCS8B5/	115 VAC	1.6 A	143 W, 1.24 A	72
RCS8F5	230 VAC	1 A	143 W, 0.62 A	72
RCS16B10/	115 VAC	3 A	280 W, 2.44 A	123
RCS16F10	230 VAC	1.6 A	282 W, 1.22 A	119
RCS16B20/ RCS16F20	115 VAC	5 A	549 W, 4.27 A	313
	230 VAC	3 A	542 W, 2.35 A	198
RCS32B20/	115 VAC	5 A	549 W, 4.27 A	313
RCS32F20	230 VAC	3 A	542 W, 2.35 A	198

^{*}BTU/H values for the transformer are equal to the difference between input power and output power.

Input Voltage 115 VAC 60Hz or 230 VAC 50Hz (± 10%),

selectable

Input Fuse Varies by model
Output Voltage 26 VAC (all models)
Output Current Varies by model

Output Fuse Rating 3 A

Fuse Type 5 x 20 mm AG Fast Blow

Circuit Breaker Ratings 3 A

Output Connectors Four-output removable terminal strips with

individually secured locking wire entry

Output Wire Size 16-20 AWG

RECOMMENDED WIRING DISTANCES

			Wire Gauge*		
Input Voltage	Total VA Consumed	20 AWG (0.5 mm²) Cansumed	18 AWG (1.0 mm²) Cansumed	16 AWG (1.5 mm²) Consumed	
26 VAC	10 20 30 50	333 ft (101 m) 166 ft (50 m) 111 ft (33 m) 66 ft (20 m)	529 ft (161 m) 264 ft (80 m) 176 ft (53 m) 105 ft (32 m)	840 ft (256 m) 420 ft (128 m) 280 ft (85 m) 168 ft (51 m)	

^{*}Individual output cannot exceed this rating, and the total of all outputs cannot exceed the overall rating of the power supply (see *Models* section)

CERTIFICATIONS/RATINGS

- CE
- Class 2 (breaker models)
- UL Listed

At the time of this printing, all other certifications are pending. Please consult the factory, our website (www.pelco.com), or the most recent B.O.S.S.® update for the current status of certifications.



USA & Canada Tel: (800) 289-9100 • FAX: (800) 289-9190 International Tel: +1 (559) 292-1981 • FAX: +1 (559) 348-1120

www.pelco.com

Spectra® IV SE Series Dome Systems

PREMIER INTEGRATED DOME SYSTEM

Product Features

- 3 Autofocus, High Resolution Integrated Camera/Optics Packages; Multiple Back Box Models
- Day/Night, 540 TVL, 128X Wide Dynamic Range (WDR), Motion Detection, and Electronic Image Stabilization (SD435 Series)
- Day/Night, 540 TVL, 80X Wide Dynamic Range, and Motion Detection (SD4CBW Series)
- Window Blanking
- Camera Title Overlay, 20 User-Definable Characters
- · Horizontal and Zone Blanking
- · On-Screen Compass and Tilt Display
- · Password Protection
- Freeze Frame During Presets
- · Built-in Surge and Limited Lightning Protection
- Integrated Passive Unshielded Twisted Pair (UTP) Circuit







PENDANT MODEL SD4CBW-PG-0

Modularity

Spectra® IV SE was designed with ease of installation and ease of maintenance in mind. Each dome system consists of three components: a back box, a dome drive, and a lower dome. These three system components are interchangeable with other Spectra IV SE dome systems, making retrofitting and application adjustments simple. Also, dome drives and lower domes can be removed and replaced reducing maintenance time.

Back Box

Spectra IV SE back box options include the following models: environmental in-ceiling (ideal for outdoor soffits), indoor in-ceiling, indoor surface mount, standard and environmental pendant, heavy-duty, pressurized, and stainless steel. Each back box model features built-in back hox memory to store camera and location-specific dome settings, including labels, presets, patterns, and zones. A passive UTP circuit is located on the door assembly for convenient video transmission through twisted pair wire. For added flexibility, Pelco fiber modules can also be attached to the door assembly for transmission over single-mode or multimode fiber.

Dome Drive

The Spectra IV SE dome drive's unique integrated optics package incorporates many advanced features that allow the system to produce high quality video in the most difficult environments. All cameras in Spectra IV SE dome drives feature LowLight™ technology allowing the cameras to compensate for scenes where minimal light is present. The 35X day/night camera features built-in motion detection and advanced 128X wide dynamic range that enables the system to compensate for scenes where dramatic contrasts in lighting are present. Electronic image stabilization digitally reduces blurring of the camera image due to vibration caused by external sources such as wind and traffic. The 23X day/night camera features built-in motion detection and 80X wide dynamic range. The 22X color camera features an EXview HAD™ imager for increased sensitivity.

- Internal Scheduling Clock
- Ability to Add IP Network Capability by Purchasing Optional TXB-IP Module

Lower Dome

Special consideration was taken when designing the Spectra IV SE lower dome bubble to ensure that an optimal optical relationship between the lens and bubble was achieved, providing crystal clear video at long focal lengths.

Dome Systems

Spectra IV SE dome systems feature many software enhancements that increase performance and make programming and operation easy. An internal scheduling clock allows for the scheduling of presets and patterns. Window blanking enables a user to program up to eight, four-sided, user-defined privacy areas. Password protection prevents unauthorized users from changing the system settings. Programmable on-screen compass and tilt display provides positioning information when needed. Intuitive multilingual on-screen programming can be displayed in English, Spanish, Portuguese, Italian, French, German, Russian, Polish, Turkish, and Czech.

Spectra IV SE's variable speed capabilities range from a smooth, fast pan motion of 400 degrees per second to a smooth "creep" speed of 0.1 degree per second. The system is capable of continuous 360 degrees rotation and has an "auto flip" feature that allows the dome to rotate 180 degrees and reposition itself for uninterrupted viewing of any subject that passes directly beneath the dome.

In addition, with the optional Pelco TXB-IP module, you can add IP network capability at any time to a Spectra IV dome system without losing analog viewing and control. By snapping the TXP-IP module into the back box, you can stream network video to a Web browser, Endura®, Integral Digital Sentry®, or third-party software recording solution allowing integration into virtually any IP-based system.



C2448 / REVISED 12-19-08

CAMERA/OPTICS

	Day/Night (35X)	Day/Night (23X)	Color (22X)
Signal Format	NTSC (DD4CBW35) PAL (DD4CBW35-X)	NTSC (DD4CBW23) PAL (DD4CBW23-X)	NTSC (DD4C22) PAL (DD4C22-X)
Scanning System	2:1 Interlace	2:1 Interlace	2:1 Interlace
Image Sensor Effective Pixels NTSC	1/4-inch EXview HAD™ 768 (H) X 494 (V)	1/4-inch progressive scan CCD 768 (H) X 494 (V)	1/4-inch EXview HAD CCD 768 (H) X 494 (V)
PAL	752 (H) X 582 (V)	752 (H) X 582 (V)	752 (H) X 582 (V)
Horizontal Resolution NTSC PAL	>540 TV Lines >540 TV Lines	540 TV Lines 540 TV Lines	>470 TV Lines >460 TV Lines
Lens	f/1.4 (focal length, 3.4~119 mm)	f/1.6 (focal length, 3.6~82.8 mm)	f/1.6 (focal length 4~88 mm)
Zoom	35X optical, 12X digital	23X optical, 12X digital	22X optical, 12X digital
Zoom Speed (optical range)	3.2/4.6/6.6 seconds	2.9/4.2/5.8 seconds	2.4/3.9/6.3 seconds
Horizontal Angle of view Focus	55.8° at 3.4 mm wide zoom; 1.7° at 119 mm telephoto zoom Automatic with manual override	54° at 3.6 mm wide zoom; 2.5° at 82.8 mm telephoto zoom Automatic with manual override	47° at 4.0 mm wide zoom; 2.2° at 88 mm telephoto zoom Automatic with manual override
Maximum Sensitivity at 35 IRE NTSC/EIA PAL/CCIR	0.55 lux at 1/60 sec (color) 0.063 lux at 1/4 sec (color) 0.00018 lux at 1/2 sec (B-W) 0.55 lux at 1/50 sec (color) 0.063 lux at 1/3 sec (color) 0.00018 lux at 1/1.5 sec (B-W)	0.025 lux at 1/2 sec (color) 0.1 lux at 1/60 sec (B-W) 0.004 lux at 1/2 sec (B-W) 0.025 lux at 1/1.5 sec (color) 0.1 lux at 1/50 sec (B-W) 0.004 lux at 1/1.5 sec (B-W)	0.02 lux at 1/2 sec shutter 0.02 lux at 1/1.5 sec shutter
Sync System	Internal/AC line lock, phase adjustable using remote control, V-Sync	Internal/AC line lock, phase adjustable using remote control, V-Sync	Internal/AC line lock, phase adjustable using remote control, V-Sync
White Balance	Automatic with manual override	Automatic with manual override	Automatic with manual override
Shutter Speed NTSC PAL	Automatic (electronic iris)/Manual 1/2 ~1/30,000 1/1.5 ~1/30,000	Automatic (electronic iris)/Manual 1/2 ~1/30,000 1/1.5 ~1/30,000	Automatic (electronic iris)/Manual 1/2 ~1/30,000 1/1.5 ~1/30,000
Iris Control	Automatic Iris Control with manual override	Automatic Iris Control with manual override	Automatic Iris Control with manual override
Gain Control	Automatic/OFF	Automatic/OFF	Automatic/OFF
Video Output	1 Vp-p, 75 ohms	1 Vp-p, 75 ohms	1 Vp-p, 75 ohms
Video Signal to Noise	>50 dB	>50 dB	>50 dB
Wide Dynamic Range	128X	80X	_
Electronic Image Stabilization	Integrated	—	-
Image Enhancement	Integrated		

DOME DRIVE FEATURES

- 256 Presets
- ±0.1° Preset Accuracy
- Electronic Image Stabilization (35X model)
- Image Enhancement (35X model)
- Multilingual Menus (English, Spanish, Portuguese, Italian, French, German, Russian, Polish, Turkish, and Czech)
- · RJ-45 Data Port for Software Update and Setup
- · On-Screen Compass, Tilt, and Zoom Display
- 400°/sec Pan Preset Speed and 200°/sec Tilt Preset Speed
- · Rotating Discreet Liner with Sealed Fixed Bubble
- · Window Blanking: Up to 8, Four-Sided, User-Defined Shapes
- 8 Zones (programmable in size) Can Be Labeled with up to 20 Characters Each or Set to Output Blank Video
- 7 Alarm Inputs
- 1 Auxiliary (Form C) Relay Output and 1 Open Collector Auxiliary Output (can be alternately programmed to operate upon alarm)
- · Programmable Locations of Labels and On-Screen Displays
- Action on Alarm: Alarms Can Be Individually Programmed for 3 Priority Levels, to Initiate a Stored Pattern, or to Go to an Associated Preset When Bacquad

- Resume After Alarm: Allows the Dome to Return to a Previously Programmed State After Alarm Acknowledgement or to its Previous Position Before Alarm
- · Multiple Park and Power-Up Action
- Patterns: Up to 8, On-Screen, User-Defined Programmable Patterns; Includes Pan, Tilt, Zoom, and Preset Functions
- Proportional Pan/Tilt: Continually Decreases Pan/Tilt Speeds in Proportion to Depth of Zoom
- Variable Scan Speed: Scan Speed Can Be Programmable Between 1 to 40°/sec
- Pan Motion Aliows 0.1 to 150°/sec Pan Speed
- Programmable Limit Stops for Auto/Random/Frame Scan Modes
- Autosensing Protocol (Coaxitron®, RS-422 P and D); Accepts Competitive Control Protocol with Optional Translator Card
- Digital Position and Zoom Control and Feedback through D Protocol
- · Built-in Menu System for Setup of Programmable Functions
- "Auto Flip" Rotates Dome 180° at Bottom of Tilt Travel
- · Programmable Zoom Speeds

WINDOW BLANKING

Window blanking allows a user to program up to eight, four-sided, user-defined areas that cannot be viewed by the operator of the dome system. A blanked area will move with pan and tilt functions and automatically adjust in size as the lens zooms telephoto and wide.



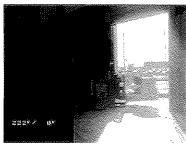
DECOR



AFTER



BEFORE



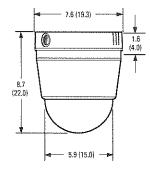
AFTER

WIDE DYNAMIC RANGE

The Wide Dynamic Range (WDR) setting balances the brightest and darkest sections of a scene to produce a picture that provides more detail.

BACK BOX FEATURES

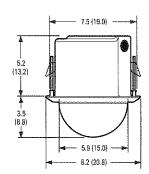




Surface Mount (Indoor)

- Built-in Memory Stores Camera/Dome Settings
- · Available in Black or White Finish
- · Quick Disconnect to Dome Drive
- Injection-Molded Plastic
- Integrated Passive UTP

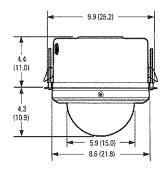




In-Ceiling (Indoor)

- · Built-in Memory Stores Camera/Dome Settings
- · Single Back Box for Suspended or Hard Ceiling Applications
- Requires 5.25-Inch Space Above Ceiling and 3.25 Inches Below
- · Minimum Ceiling Thickness 0.5-Inch; Maximum 1,75 Inches
- · Quick Disconnect to Dome Drive
- · Aluminum Construction
- Suitable for Use in Environmental Air Handling Spaces
- Integrated Passive UTP



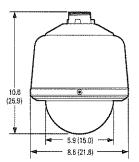


Environmental In-Ceiling

- · Built-in Memory Stores Camera/Dome Settings
- · Single Back Box for Hard Ceiling Applications
- · Requires 4.4-Inch Space Above Ceiling and 4.3 Inches Below
- Includes Heater and Fan
- · Minimum Ceiling Thickness 0.5-Inch; Maximum 1.75 Inches
- · Quick Disconnect to Dome Drive
- · Aluminum Construction
- Integrated Passive UTP



(ENVIRONMENTAL DOME WITH SUN SHROUD SHOWN)



NOTE: VALUES IN PARENTHESES ARE CENTIMETERS, ALL OTHERS ARE INCHES.

Standard and Environmental Pendant

- · Standard and Environmental Models
- · Built-in Memory Stores Camera/Dome Settings
- Standard Pendant Available in Black or Gray Finish; Environmental Pendant Gray Finish Only
- · Quick Disconnect to Dome Drive
- · Aluminum Construction
- · Environmental Model Includes Sun Shield, Fan, and Heater
- Integrated Passive UTP

MECHANICAL (Dome Drive Only)

Pan Movement Vertical Tilt

360° continuous pan rotation Unobstructed +2° to -92°

Manual Pan/Tilt Speeds Pan

0.1° to 80°/sec manual operation, 150°/sec Turbo

Tilt Preset Speeds 0.1° to 40°/sec manual operation

Pan

Tilt

400°/sec 200°/sec

For variable-speed operation an appropriate controller is required (with nonvariable speed control. Spectra IV SE pan/tilt speed is

20°/sec)

ELECTRICAL

Input Voltage

18 to 32 VAC; 24 VAC nominal 22 to 27 VDC; 24 VDC nominal

Input Power

24 VAC 23 VA nominal (without heater): 73 VA nominal (with heater) 24 VDC 0.7 A nominal (without heater); 3 A nominal (with heater) 1.25 A

Fuse **Auxiliary Outputs** 2 Alarm Inputs

CERTIFICATIONS/RATINGS/PATENTS

- CE, Class B
- · FCC, Class B
- · UL/cUL Listed
- · C-Tick
- · S Mark for Argentina
- GOST
- U.S. Patents 5,931,432; 6,793,415 B2; 6,802,656 B2; 6,821,222 B2; 7,161,615 B2

Meets the following standards:

- · NEMA Type 4X, IP66 when installed properly (BB4-F-E, BB4-PB, BB4-PG, and BB4-PG-E)
- NEMA Type 1, IP40 (BB4-SMW, BB4-SMB and BB4-F)

GENERAL

Construction Back Box

Surface Mount Plastic In-Ceiling Aluminum Pendant Aluminum

Aluminum, thermo plastic Dome Drive

Bubble Acrylic

Light Attenuation

Smoked f/0.5 light loss Clear Zero light loss Chrame f/2.0 light loss Gold f/2.0 light loss

Cable Entry (Back Box) In-Ceiling and

Surface Mount 0.75-inch conduit fitting

Pendant Through 1.5-inch NPT pendant mount Weight (approximate) Unit Shipping

Back Box Surface Mount 0.7 (b (0.32 kg) 2 lb (0.90 kg) 1.5 (b (0.68 kg) 2 lb (0.90 kg) In-Ceiling Environmental In-Ceiling 2.1 lb (0.95 kg) 3 lb (1.36 kg)

Standard Pendant 2.4 lb (1.09 kg) 4 lb (1.81 kg) Environmental Pendant 3.5 lb (1.59 kg) 5 lb (2.27 kg) Dome Drive 3.3 lb (1.48 kg) 5 lb (2.27 kg)

Lower Dome Surface Mount 0.4 lb (0.18 kg) 1 lb (0.45 kg)

In-Ceiling 0.2 lb (0.09 kg) 1 lb (0.45 kg) Pendant and Environmental

In-Ceiling 0.6 lb (0.27 kg) 2 lb (0.90 kg)

Environment

Surface Mount Indoor In-Ceiling Indoor Environmental In-Ceiling Outdoor Pendant, Standard

and Environmental Indoor/outdoor

Operating Temperature Surface Mount and

Indoor In-Ceiling 32° to 122°F (0° to 50°C) Standard Pendant (Assumes no wind chill factor) 113°F (45°C) absolute maximum; Maximum 95°F (35°C) sustained maximum 25°F (-4°C) sustained minimum

Minimum Environmental

In-Ceiling and **Environmental Pendant**

(Assumes no wind chill factor) Maximum 140°F (60°C) absolute maximum; 122°F (50°C) sustained maximum

Minimum -60°F (-51°C) absolute minimum; prevents icing at sustained minimum of -50°F (-45°C); de-ices 0.1 inch (2.5 mm) within 3 hours after

power-up

Effective Projected Area (EPA)

20.5 square inches (without mount) 47 square inches (with IWM Series mount)

OPTIONAL ACCESSORIES

DD5-FM Fixed camera mount adapter. Interchangeable

with all Spectra IV dome drives.

IPS-RMK

Remote monitor kit. Stand-alone kit consisting of a 5.6-inch TFT-LCD monitor, Palm™ OS compatible handheld, cables and carrying case. Allows viewing of camera video, local PTZ control, system setup, and system software upgrades at any installed

IPS-CABLE

Remote monitor cable and software kit consisting of the Spectra IV remote monitor interface cable and necessary software for use with a PC (Windows® 95, 98, Me, 2000), Palm™ OS compatible handheld or iPaq™ Series Pocket PC. Refer to www.pelco.comfor

a list of compatible devices.

IPS-RDPE-2*

Remote data port. 24 VAC, wall/pole mount video/data breakout box. Allows ground-level control/programming and Spectra IV OS software upgrades when used with the

IPS-RMK or IPS-CABLE.

Translator boards for AD™ Manchester, TXB Series*

Hernis, Bosch® (Philips, Burle), Sensormatic®,

Vicon™, TASS, and NTCIP protocols.

TXB-IP Series* Communication module that allows you to

control and menitor Spectra IV dome systems over an IP network (in-ceiling and pendant

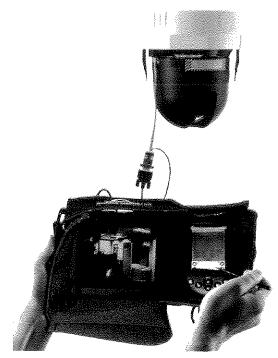
models only).

FS85011A* Fiber transmitter sends one unidirectional

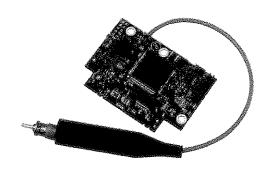
composite video channel and one bidirectional data channel over one

multimode or single-mode fiber optical cable.

*If TXB or FS85011A boards are installed, remote upload of system software will not be possible.



IPS-RMK REMOTE MONITOR KIT



FS85011A FIBER MODULE

RELATED PRODUCTS

RECOMMENDED MOUNTS

Surface Mount Domes

PASMB Pendant adapter for surface mount dome,

black

SD53SM-P 2' x 2' drop ceiling panel for BB4-SMW and

BB4T-SMW series back boxes; replaces 2' x 2'

ceifing tile; aluminum construction

In-Ceiling Domes

SD5-P 2' x 2' drop ceiling panel, atuminum

construction; replaces 2' x 2' ceiling tile

SCA1 Support rails for BB4-F; for use in ceiling tite

applications

Pendant Domes

BB5-PCA-BK¹ Pendant conduit adapter, black
BB5-PCA-GY¹ Pendant conduit adapter, gray

IWM Series Wall mount, with or without integral 24 VAC,

100 VA transformer; black or gray finish; can

be adapted for corner, parapet or pole

applications

MRCA Ceiling mount, black
MRWA Wall mount, black
PP4348 Parapet roof mount
PP350/PP351 Parapet wall/roof mount

SWM Series Compact wall mount, black or gray finish; can

be adapted for corner or pole applications

RECOMMENDED POWER SUPPLIES

MCS Series Indoor, 24 VAC power supply MCS*E Series Indoor, 24 VAC power supply WCS Series Outdoor, 24 VAC power supply

Refer to individual power supply specifications for more information.

¹ Not suitable for use with heavy-duty, pressurized, or stainless steel Spectra domes.

SYSTEM AND COMPONENT MODELS

SYSTEM MODEL NUMBERS

Туре	Back Box Color	Lower Dome	35X Day/Night*	23X Day/Night*	22X Color*
Surface Mount	White	Smoked	SD435-SMW-0	SD4CBW-SMW-0	SD4C22-SMW-0
		Clear	SD435-SMW-1	SD4CBW-SMW-1	SD4C22-SMW-1
		Chrome	SD435-SMW-2	SD4CBW-SMW-2	SD4C22-SMW-2
		Gold	SD435-SMW-3	SD4CBW-SMW-3	SD4C22-SMW-3
	Black	Smoked	SD435-SMB-0	SD4CBW-SMB-0	SD4C22-SMB-0
		Clear	SD435-SMB-1	SD4CBW-SMB-1	SD4C22-SMB-1
		Chrome	SD435-SMB-2	SD4CBW-SMB-2	SD4C22-SMB-2
		Gold	SD435-SMB-3	SD4CBW-SMB-3	SD4C22-SMB-3
In-Ceiling, Indoor	Black	Smoked	SD435-F0	SD4CBW-F0	SD4C22-F0
		Clear	SD435-F1	SD4CBW-F1	SD4C22-F1
		Chrome	SD435-F2	SD4CBW-F2	SD4C22-F2
		Gold	SD435-F3	SD4CBW-F3	SD4C22-F3
In-Ceiling, Environmental ¹	Black	Smoked	SD435-F-E0	SD4CBW-F-E0	SD4C22-F-E0
		Clear	SD435-F-E1	SD4CBW-F-E1	SD4C22-F-E1
Pendant, Standard	Black	Smoked	SD435-PB-0	SD4CBW-PB-0	SD4C22-PB-0
		Clear	SD435-PB-1	SD4CBW-PB-1	SD4C22-PB-1
		Chrome	SD435-PB-2	SD4CBW-PB-2	SD4C22-PB-2
		Gold	SD435-PB-3	SD4CBW-PB-3	SD4C22-PB-3
	Lt. Gray	Smoked	SD435-PG-0	SD4CBW-PG-0	SD4C22-PG-0
		Clear	SD435-PG-1	SD4CBW-PG-1	SD4C22-PG-1
		Chrome	SD435-PG-Z	SD4C8W-PG-2	SD4C22-PG-2
		Gold	SD435-PG-3	SD4C8W-PG-3	SD4C22-PG-3
Pendant, Environmental ¹	Lt. Gray	Smoked	\$0435-PG-E0	SD4CBW-PG-E0	SD4C22-PG-E0
		Clear	SD435-PG-E1	SD4CBW-PG-E1	SD4C22-PG-E1

COMPONENT MODEL NUMBERS

	Back Box		Dome Drive*		Lower Dome‡
884-SMB BB4-SMW BB4-F BB4-F-E BB4-PB BB4-PG BB4-PG-E	Surface mount, black Surface mount, white In-ceiling, black In-ceiling, black, environmental Pendant mount, black, standard Pendant mount, gray, standard Pendant mount, gray, environmental	DD4C22 DD4CBW23 DD4CBW35 DD5-FM	Color (NTSC) camera (22X) Day/Night (NTSC) camera (23X) Day/Night (NTSC) camera (35X) Removable, fixed mount bracket only (camera and lens not included), interchangeable with all Spectra IV dome drives.	LD53SMB-0 LD53SMB-1 LD53SMB-2 LD53SMB-3 LD53SMW-0 LD53SMW-1 LD53SMW-2 LD53SMW-2 LD53SMW-3	Smoked, surface, black Clear, surface, black Chrome, surface, black Gold, surface, black Smoked, surface, white Clear, surface, white Chrome, surface, white Gold, surface, white
Notes: To order a fixed mount dome system refer to the component models above and select one each of the following: back box (BB4-F), dome drive (DD5-FM), plus choice of lower dome (LD5F-0, LD5F-1, LD5F-2 or LD5F-3). For environmental applications, you must order an environmental back box (BB4-F-E) or (BB4-PG-E). DD5-FM is ideal for use with Pelco's C10DN-6, C10DN-6X, C10CH-6, C10CH-6X, CCC1390H-6, and CCC1390H-6X cameras with selected Pelco fenses.		LD5F-0 LD5F-1 LD5F-2 LD5F-3 LD53PB-0 LD53PB-1 LD53PB-2 LD53PB-3	Smoked, in-ceiling Clear, in-ceiling Chrome, in-ceiling Gold, in-ceiling Smoked, pendant, black Clear, pendant, black Chrome, pendant, black Gold, pendant, black		

^{*}For PAL and CCIR models add "-X" suffix to part number. (Example: SD435-SMW-0-X)

[†]Environmental dome systems include a heater, fan, and the environmental pendant also includes a sun shield.

[‡]Use the pendant lower domes with the environmental in-ceiling and environmental pendant back boxes.

[§]Not recommended for outdoor use due to possible light reflections.

WM2000 Mount

WALL MOUNT, HEAVY DUTY, PAN/TILT AND ENCLOSURE

Product Features

- Wall Mounting
- Can Be Used in Corner, Pole, and Parapet Applications When Used with Appropriate Mount Adapter
- Supports up to 75 lb (34 kg); 150 lb (68 kg) When Used with ST1 Strut
- For Use with Medium- and Heavy-Duty Pan/Tilts or Enclosures
- Cable Feedthrough Holes (Top and End of Arm); Removable Plastic Cap on Front End





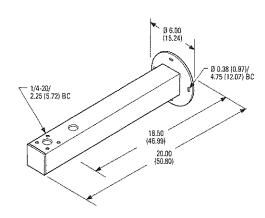
The **WM2000** is a universal wall mount designed for use with mediumand heavy-duty pan/tilts or enclosures. Constructed from aluminum, the **WM2000** will safely support up to 75 lb (34 kg). When used with the ST1 support strut, the maximum load is increased to 150 lb (68 kg). Optional mount adapters are available for corner, pole, and parapet applications.

The **WM2000** can be adapted for use with enclosures when used with the AH1000 or AH2000 adjustable head. The AH1000 and AH2000 allow 360-degree positioning of the enclosure; the AH1000 is for use with EH4700 Series enclosures, and the AH2000 is for use with EH5700, EH8106, and EHX*E Series enclosures.

In certain applications, the AH1000 or AH2000 can be used alone.

When mounting a pan/tilt on the WM2000, the appropriate adapter (PA2000/PA2010) must be used (refer to Related Products).

Adapters are available for corner (CM100), pole (PA102), and parapet (PP100) applications (refer to Optional Adapters).



NOTE: VALUES IN PARENTHESES ARE CENTIMETERS; ALL OTHERS ARE INCHES.

WM2000







MODELS/TECHNICAL SPECIFICATIONS

WM2000 and Related Products

MODEL

WM2000 Universal wall mount for pan/tilts and

enclosures

RELATED PRODUCTS

AH1000 Manually adjustable pan/tilt head for use

with EH4700 Series enclosures

AH2000 Manually adjustable pan/tilt head for use

with EH5700, EH8106, and EHX*E Series

enclosures

Mount adapter for PT520P, PT520SL, PT570P, PA2000

PT570-24P, and PT680-24P pan/tilts

PA2010 Mount adapter for PT1250DC, PT1250P,

PT1280P, PT1280SL, and PT1260EX heavy

duty pan/tilts

ST1 Support strut; for use with WM2000.

Increases maximum load to 150 lb (68 kg)

OPTIONAL ADAPTERS

CM100 Corner mount adapter for WM2000 mount

Pole mount adapter for WM2000 mount. PA102

Straps fit 3-inch (7.62 cm) to 8-inch (20.32 cm)

diameter pole.

PP100 Parapet mount for WM2000 mount SCM100 Corner mount adapter for ST1 strut

Pole mount adapter for ST1 strut. Straps fit SPA102

3-inch (7.62 cm) to 8-inch (20.32 cm) diameter

MECHANICAL

360° (models AH1000 and AH2000 only) Pan Adjustment ±90° (models AH1000 and AH2000 only) Tilt Adjustment Mounting Method Secure to a solid surface with fasteners of a

suitable size (not supplied)

GENERAL

Effective Projected Area (EPA)

WM2000 ~60 souare inches AH1000 ~21 square inches AH2000 ~7 square inches ST1 ~30 square inches Construction Aluminum

Finish Gray polyester powder coat

Maximum Load 75 lb (34 kg); 150 lb (68 kg) when used with

ST1 strut

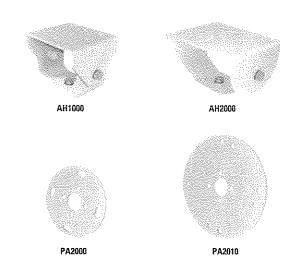
Unit Weight AH1000 0.88 lb (0.40 kg) 2.92 lb (1.32 kg) AH2000 PA2000 0.63 lb (0.28 kg) PA2010 1.28 lb (0.58 kg) 1.34 lb (0.61 kg) WM2000 3.07 lb (1.39 kg)

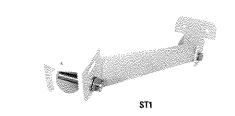
Shipping Weight

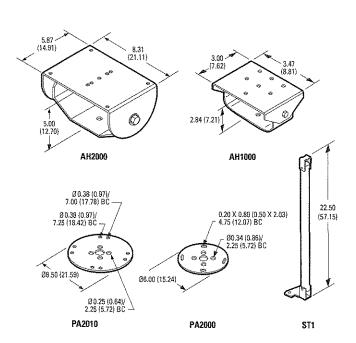
AH1000 2 lb (0.90 kg) AH2000 4 lb (1.81 kg) PA2000 1 lb (0.45 kg) 2 lb (0.90 kg) PA2010 3 lb (1.35 kg) ST1 WM2000 5 lb (2.26 kg)

CERTIFICATIONS

UL Listed







NOTE: VALUES IN PARENTHESES ARE CENTIMETERS; ALL OTHERS ARE INCHES.

MODELS/TECHNICAL SPECIFICATIONS

Corner Adapters

MODELS

CM100 Corner mount adapter for WM2000 wall

mount

SCM100 Corner mount adapter for ST1 support strut

MECHANICAL

Adapter Mounting Four 5/16-inch studs provided for mounting

the WM2000 to CM100 (nuts and split lock washers supplied). Three 5/16-inch studs provided for mounting ST1 strut to the SCM100 (nuts and split lock washers

supplied).

Suggested

Mounting Method Secure to solid mounting surface with

fasteners of a suitable size. (Fasteners are not

supplied.)

CM100 8 required SCM100 4 required

Maximum Load

CM100 75 lb (34 kg) CM100 with SCM100 150 lb (68 kg)

GENERAL

Construction 0.125-inch (3.17 mm) thick, 5052H32

aluminum

Finish Gray polyester powder coat

Unit Weight

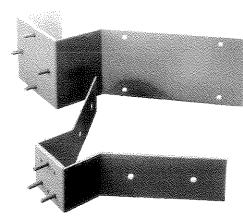
CM100 3 lb (1.4 kg) SCM100 1.5 lb (0.6 kg)

Shipping Weight

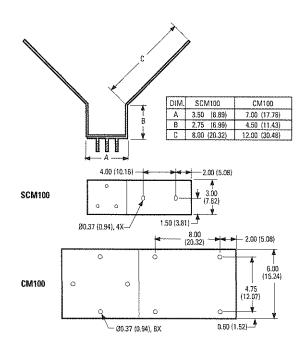
CM100 5 lb (2.3 kg) SCM100 2 lb (0.9 kg)

CERTIFICATIONS

UL Listed



CM100 (TOP) AND SCMP100 (BOTTOM)



NOTE: VALUES IN PARENTHESES ARE CENTIMETERS; ALL OTHERS ARE INCHES.

MODELS/TECHNICAL SPECIFICATIONS

Pole Adapters

MODELS

PA102 SPA102 Pole mount adapter for WM2000 Pole mount adapter for ST1 strut

GENERAL

Construction

Mount PEM Studs Aluminum, 0.125-inch (3.17 mm) thick Stainless steel

Adapter Mounting

PA102 SPA102 4, 5/16-inch studs 3, 1/4-inch studs

(Nuts to secure mount to adapter are not

supplied)

Suggested Mounting Method

Slots are provided for mounting straps; stainless steel straps supplied. Straps fit 3-inch (7.62 cm) to 8-inch (20.32 cm) diameter

pole.

Maximum Load

Will support maximum load specified for WM2000 mount: 75 lb (33.97 kg); 150 lb (67.95 kg) when used with ST1 strut

and SPA102

Unit Weight

PA102 SPA102 3.35 lb (1.52 kg) 1.83 lb (0.83 kg)

Shipping Weight

PA102 SPA102 5 lb (2.27 kg) 3 lb (1.36 kg)

CERTIFICATIONS

UL Listed

Parapet Adapters

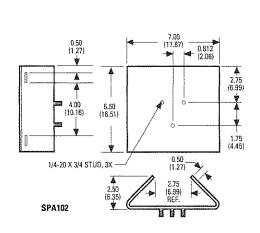
MODEL

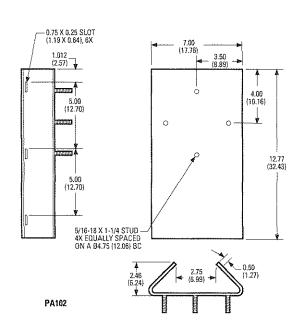
PP100

Parapet adapter mount for use with WM2000 wall mount. Refer to PP100 specification sheet (C245) for additional information.



PA102 POLE ADAPTER SHOWN WITH WM2000 MOUNT AND SPA102 STRUT ADAPTER WITH ST1 STRUT





NOTE: VALUES IN PARENTHESES ARE CENTIMETERS; ALL OTHERS ARE INCHES.



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